NOVEMBER 1960

NUCLEONICS

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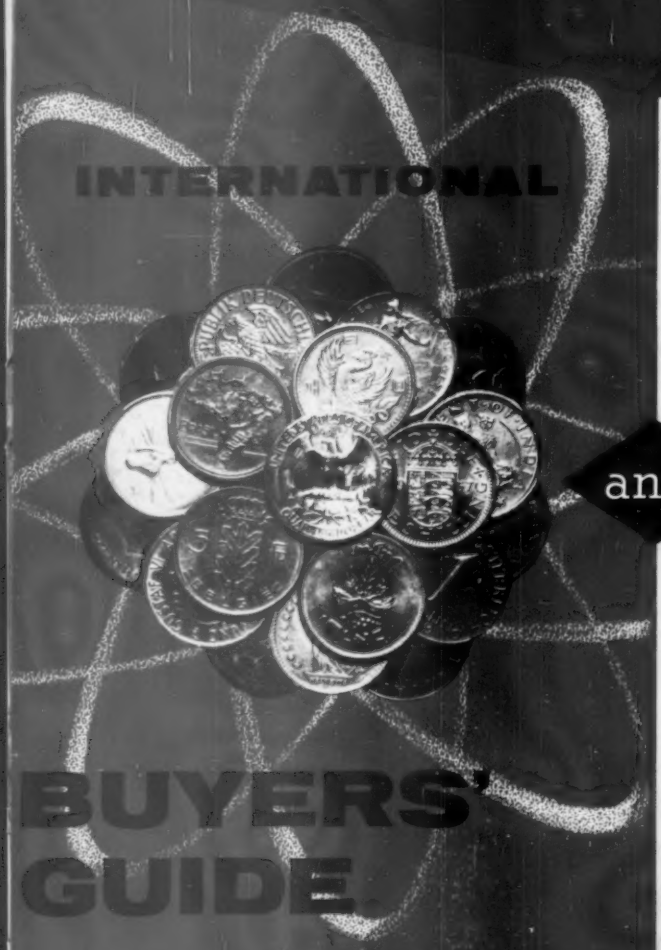

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Bigger than ever this year—nearly 1,000 product categories, more than 250 cross references, all manufacturers' sales offices complete with addresses and phone numbers.

See p. 277

and

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See p. 147

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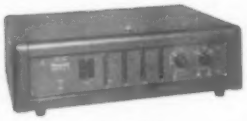

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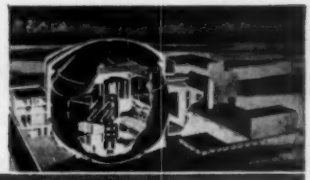

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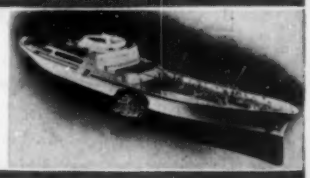
Example • Indian Point, Pressurized Water, Thorium Converter: Design and manufacture of nuclear system

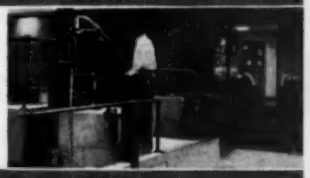


MARINE PROPULSION SYSTEMS

Example • N.S. Savannah: Design and manufacture of nuclear system

MAJOR DEVELOPMENT PROJECTS

Examples • Liquid Metal Fuel Reactor Experiment, Gas Suspension Study



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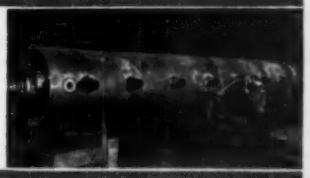
Examples • Hamburg, Germany; Sao Paulo, Brazil



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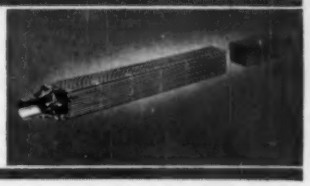

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PRODUCTS					
Castings	√		√		
Clad Materials	√		√	√	√
Control Rods					√
Dispersions				√	√
Fabricated Assemblies	√	√	√	√	√
Fabricated Shapes	√		√	√	√
Foil	√		√		√
Fuel Elements	√	√	√	√	
Fuel Rods		√	√	√	
Poison Strips					√
Tubing	√				
Wire	√		√	√	
PRODUCTION SERVICES					
Annealing and Heat Treating	√		√		√
Assembly	√	√	√	√	√
Brazing	√	√	√		
Casting	√		√		
Cladding	√	√	√		√
Chemical Milling	√		√		√
Extrusion	√		√		
Machining	√	√	√	√	√
Materials Research	√	√	√	√	√
Rolling	√		√	√	√
Vapor Blasting	√		√	√	√
Welding	√	√	√		√
TESTING SERVICES					
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Chemical Analysis	√	√	√	√	√
Isotopic Analysis			√	√	
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APPLIED RADIATION • ATOMIC POWER • NUCLEAR ENGINEERING

NOVEMBER 1960

VOLUME 18 NUMBER 11

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...about NUCLEONICS

Reference Data Manual

The dictionary definition of the word *refer* reminds us of its origins in the Latin *ferre*, to carry, preceded by the prefix *re*, here used in the sense of back. Thus a reference work takes you back over ground that you may be presumed to know, but which you need to consult again for accuracy, for support.

This first reference data issue of NUCLEONICS adds to our well-established Buyers' Guide a 64-page manual of technical reference material that we judge particularly useful to those in the nuclear field. In assembling the material, which starts on page 147, we have endeavored to touch on many of the varied interests of our readers. We insisted first on being sure to include those data that are the sine qua non of nuclear research: a table of radionuclides (by John Stehn of KAPL, who's responsible for GE's Chart of the Nuclides) and a reactor table (by our own Associate Editor Jim Dutton).

But there's a lot more too. There's an updating of Mittleman's famous table of capture gamma rays along with an interpretive discussion on the state of our knowledge in that field, both by his colleagues Eugene Troubetzkoy and Herb Goldstein. There are two compilations of the properties of reactor materials (pages 154 and 162) and even an attempt at tying down the ever-elusive cost of reactor materials in a tabulation by Kark Mayer of Lockheed (page 166).

If your interests run to radiochemistry you will keep coming back to Katcoff's updated table of fission-product chains and yields (page 201) and may, along with everyone else who counts, need to seek the occasional support of Arthur Jaffe's summary of statistical tests of counting accuracy (page 180). If you wonder what the conversion is between burnup in Mwd/tonne and burnup in atomic per cent the answer lies in Paul R. Huebotter's convenient nomographs (page 176) or if you're changing rads into kilowatt hours per barrel of water you'll want to have at hand the table of dosimetry conversions designed by our own husband-wife writing team of Ellis and Ellis.

The entire reference data manual, which we plan to make an annual custom, was prepared under the aegis of Associate Editor Tom Cramer. Many months ago we put our heads together to select subjects that would be most useful to those in the nuclear field. We backed up our own hunches with a survey whose results indicated that our manual would be used an average of 3.5 times a week. If that expectation proves true, this will be just about the most valuable piece of editorial work we have ever produced. We hope you find it so.

The Buyers' Guide

From absorbers, radiation to zinc sulfide, the 1960–61 NUCLEONICS Buyers' Guide covers the products and services used in the nuclear field. As you can readily observe from the thickness and weight of this issue, this year's Buyers' Guide is bigger than ever. It is also better than ever, extra care having been taken to ensure breadth of coverage. We are only human though and there may be a category or two that you feel should be added. We would be most pleased to hear your suggestions.

—The Editors

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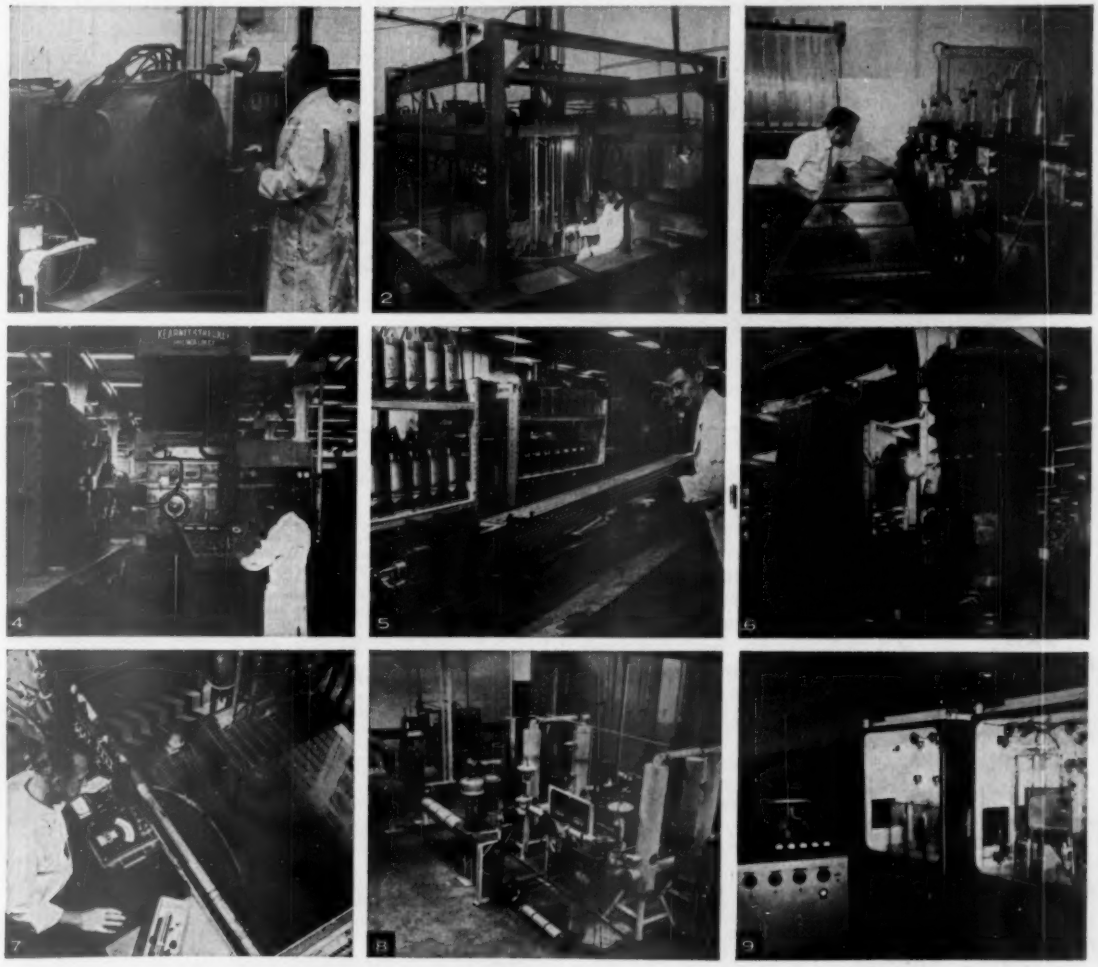

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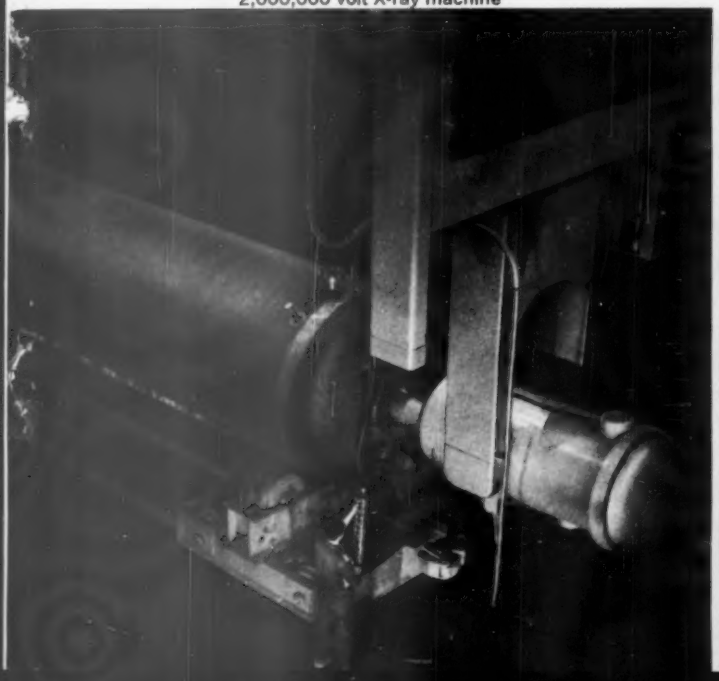

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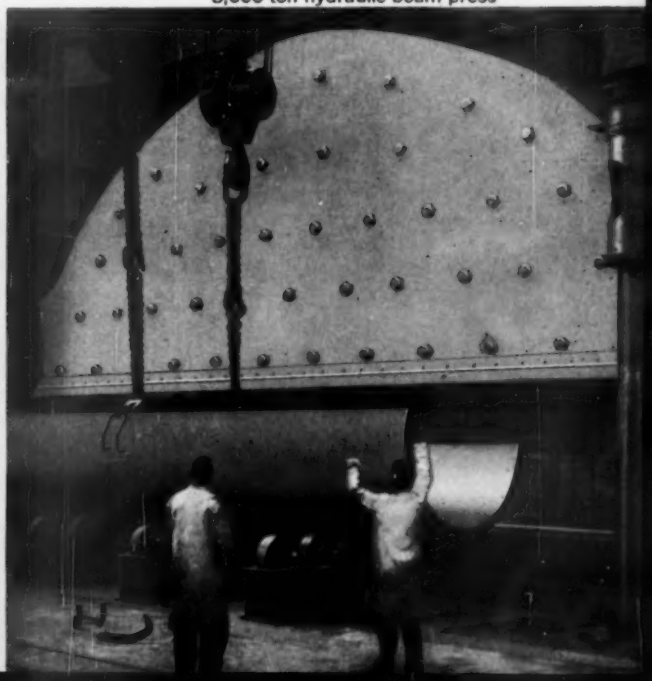

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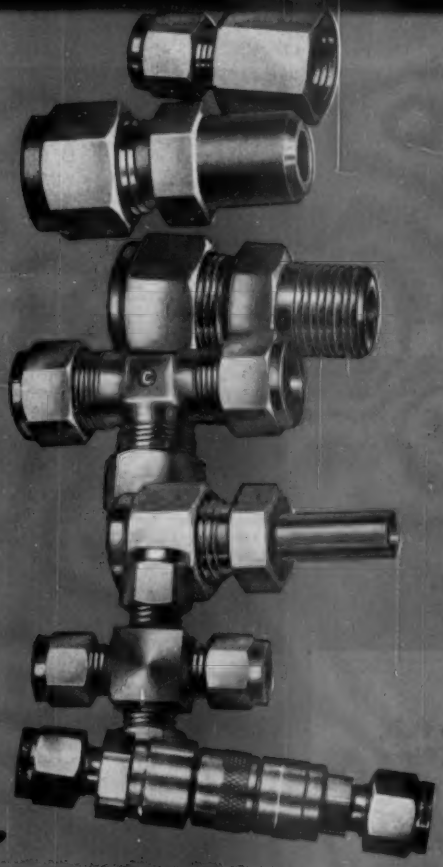

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KOLLMORGEN

instruments can solve your hot lab or reactor viewing and photography problems

. . . just as they have for Idaho Falls, Oak Ridge, Hanford, Savannah River, Livermore, Shippingport and practically every other major nuclear installation in the United States and Canada.

WALL PERISCOPES

Standard wall periscopes for hot cell remote viewing and photography offer 180° scanning of the cell interior, dual magnification in 2x and 10x, with counterweight for easy positioning of eyepiece at any height, built-in radiation shielding and non-browning optics. Camera adapter and filar eyepiece are standard equipment. All control linkages between eyepiece assembly and viewing head are mechanical and fool-proof. Wall periscopes offer years of service with no special maintenance.

Photo courtesy Phillips Petroleum Company

■ In fact, Kollmorgen has designed and produced more nuclear remote viewing and inspection equipment than any other manufacturer. The instruments shown on these pages are representative of many which are designed to operate under conditions of radioactivity, heat and pressure.

No matter how simple or complex your remote viewing problem may be, try Kollmorgen first. There's a good chance that our files already contain a design which will suit your needs.

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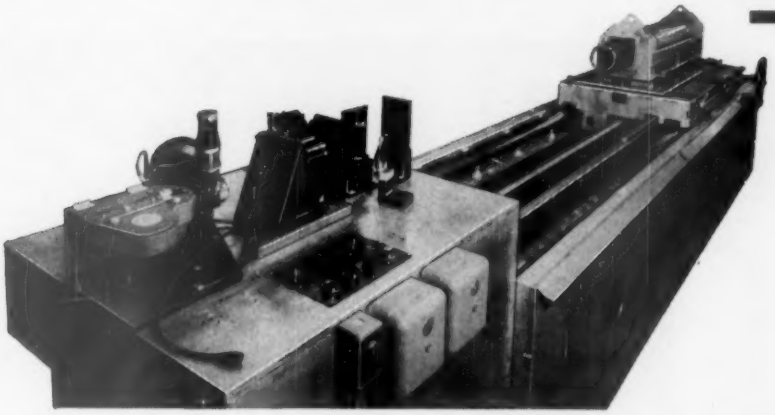
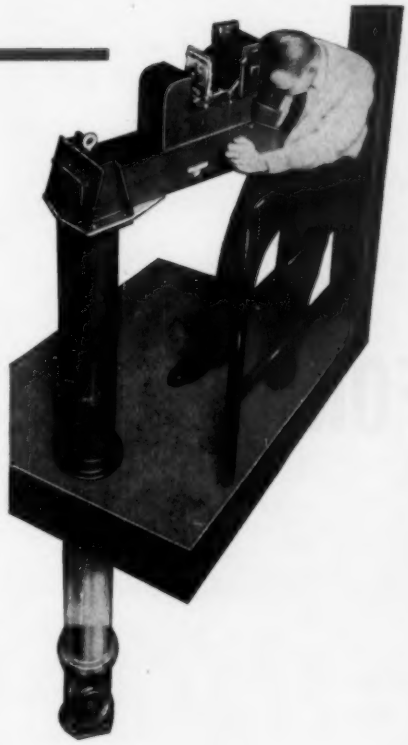


CONTINUOUS STRIP FUEL INSPECTION CAMERAS

These instruments are used for the corrosion inspection of various types of fuel elements. The full width of the water channel under examination is recorded on 16 mm film. Film can be examined with a standard micro-film viewer.

UNDERWATER PERISCOPES

Underwater periscopes range in type from simple fixed position instruments to models with horizontal and vertical scanning, varying ranges of magnification and built-in light sources. Used widely in pools and canals in test facilities and reactors, Kollmorgen underwater periscopes can be provided in lengths to suit any installation. Either monocular or binocular instruments plus camera adapters are available. Corrosion resistant materials and non-browning optics are used.



Kollmorgen will exhibit at Atomfair West, Booth 516.

ACCESSORY EQUIPMENT

Optical Microscope Relays

Optical microscope relays allow the establishment of an optical circuit between the viewing head of a wall periscope and any standard microscope installed inside the hot cell.

Sealing Domes

These molded and polished non-browning glass domes are installed inside the hot cell to seal off the sleeve in which the wall periscope is installed. They are an excellent means of keeping an undisturbed cell atmosphere. The optical quality of the dome is such that there is no distortion when used in conjunction with any Kollmorgen wall periscope. The design permits back-fitting in existing facilities.

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CORPORATION
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Kollmorgen Corporation
Northampton, Mass.

Please send me complete information on the following Kollmorgen instruments for nuclear applications:

☐ Wall periscopes ☐ Underwater periscopes
☐ Fuel inspection cameras ☐ Sealing domes
☐ Optical microscope relays

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Street Address .....
City ..... Zone ..... State .....

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FOR CON ED'S NEW ATOM PLANT—

eight 15-ton nuclear valves by CRANE

This 15-ton, 24" behemoth (shown here under test) is one of eight Crane valves for service on reactor inlets and outlets of the main coolant lines in Consolidated Edison's new atomic power plant.

They're Type 304 stainless steel, adapted from standard Crane designs, engineered to fit this application. (Crane's ability to modify standard designs can save you time and money, too.)

Each of these valves is rated at 1500 psi (ASA) for service at 1800 psi, 650 F. Tested for seat tightness at 2700 psi differential—far beyond ordinary commercial standards. Designed for rapid operation (inlet valves, 4 minutes; outlet valves, 30 seconds), with a maximum stem thrust of 208,000 pounds. Designed, also, to provide reliable operation at continued high temperatures—to minimize servicing in radioactive areas.

Remember that Crane, with its vast experience and its unexcelled engineering staff, is best qualified to handle all of your nuclear valving needs. And, of course, the same skill that solves tough problems gives economy and quality on everyday valve requirements, too.

Won't you let us demonstrate how our experience can meet your nuclear valving needs with important savings in cost and time?

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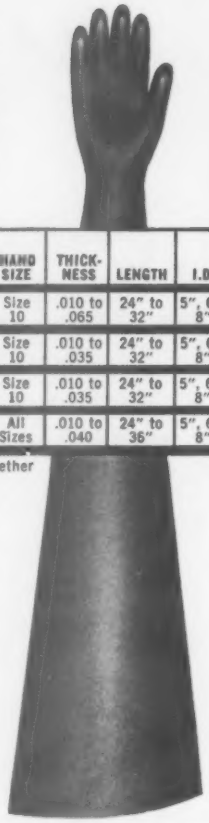
DRY BOX GLOVES
handle "hot" atomic materials faster, safer!



TYPE	HAND SIZE	THICK-NESS	LENGTH	I.D.
Natural Rubber (Seamless)	Size 10	.010 to .065	24" to 32"	5", 6", 8"
Milled Neoprene (Seamless)	Size 10	.010 to .035	24" to 32"	5", 6", 8"
Neoprene Latex (Seamless)	Size 10	.010 to .035	24" to 32"	5", 6", 8"
Neoprene Special*	All Sizes	.010 to .040	24" to 36"	5", 6", 8"

*Glove and Sleeve cured together

Available in a full range of sizes and thicknesses in natural rubber, milled Neoprene and Neoprene latex—for "full reach" hand and arm protection with complete comfort, safety, and full finger sensitivity.

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PROPIPETTE
Safety Pipette Filler
holds liquids indefinitely

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• Simple to operate

The new PROPIPETTE eliminates the dangerous practice of using the mouth to draw liquids into pipettes. It is simple to use and the operator soon becomes proficient so that liquids can be delivered quickly, precisely and safely. Measurement precision is extremely high (0.01cc). The instrument has three agate-ball valves which operate independently and the entire procedure can be done with only one hand.

PRICE $7.60 each . . . comes in black, red, green and blue, sent on approval.

all laboratory pipettes can be used with the PROPIPETTE—Safety Pipette Filler.

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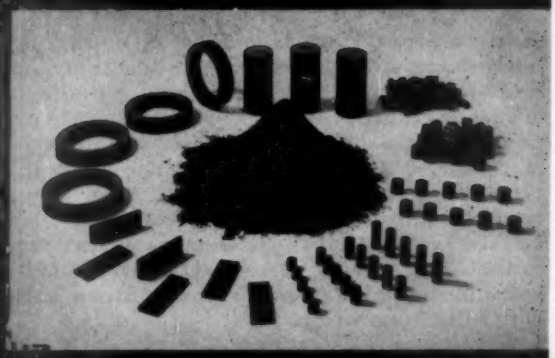
OBJECTIVE: TO SUPPLY GREATER POWER POTENTIAL TO AN EXPANDING NUCLEAR INDUSTRY



Already firmly established as a world supplier of high purity nuclear fuels and other reactor materials, NUMEC increases its investment in the future of Atomic Power.

A new conversion plant has increased NUMEC's fuel productive capacity by well over 300 tons per year, thereby adding over 1000 MW/year to the world's nuclear power potential.

NUMEC is producing, in quantities from grams to tons, a large number of high quality ceramic fuel materials in powder form or as finished pellets, plates, rings, and cylinders. NUMEC also manufactures other nuclear fuel materials, coated fuel particles, ceramic dispersions, control and moderating materials, and special equipment for use in materials fabrication and research.

NUMEC, already a leader in the field, continues its contributions to the development and growth of the Nuclear Industry.

NUMEC

nuclear materials and equipment corporation

apollo, pennsylvania

cable NUMEC

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NUMEC's growth is constantly creating new and challenging opportunities for scientists and engineers in basic research and development. Write today for information.

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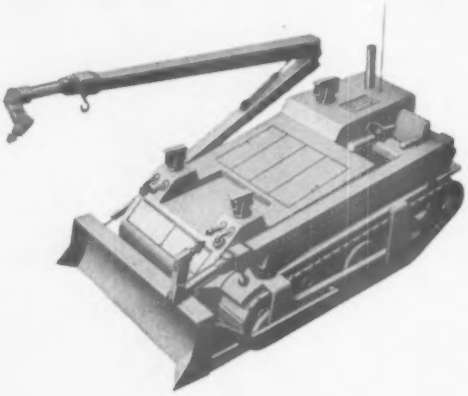
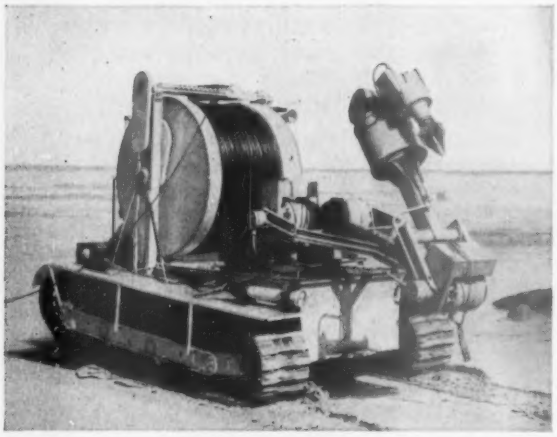
Remote handling problems

General Mills Nuclear Experience Backs These Custom-Designed Remote Manipulators

General Mills' Nuclear Equipment Department has designed and built Mechanical Arms for most major atomic installations in the United States. This experience, gained in becoming a recognized leader in the remote handling field, has provided the background for many advanced remote handling projects. Some examples are shown on this page. You can avail yourself of this design know-how and engineering skill by contacting General Mills early in the design stage.

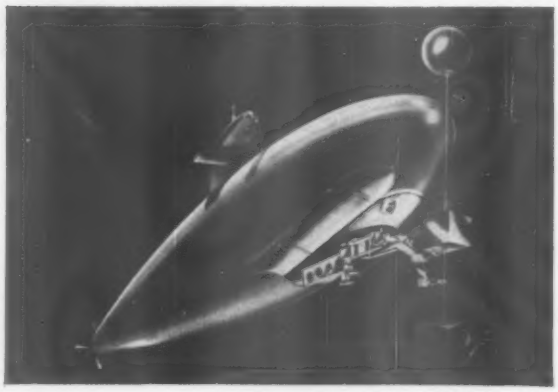
Manipulators that travel cross country to hazard areas. The two custom-designed General Mills Mechanical Arms give a high degree of remote manipulating dexterity to this proposed vehicle. Mobile equipment such as this is designed for the maintenance of equipment and recovery of objects under conditions hazardous to man. An example would be the recovery of nuclear packages from crashed aircraft. The versatility of the vehicle permits manual or remote radio controlled operation.





Arms probe ocean floor, while controlled from shore! The Scripps Institution of Oceanography called on General Mills to design and build a remote manipulator for their unmanned oceanographic research vehicle. The manipulator is controlled from a shore station where movements are observed by TV cameras. It was a particularly difficult problem because all motors and parts must withstand depths to 20,000 ft. and ambient sea water pressures of 10,000 psi. General Mills engineers solved the problem and gained more valuable experience in underwater remote manipulations.

"Human" dexterity at the bottom of the sea! Much research data has been gathered by bathyscaphs and similar underwater vehicles through visual and photographic observation, but lack of manipulative ability has precluded the taking of important on-the-spot samples. Recognizing this need, General Mills engineers have applied their remote handling experience to the problem and have already completed preliminary designs for a submarine mounted Mechanical Arm. A researcher could duplicate the motions of the human arm, while far under the sea.



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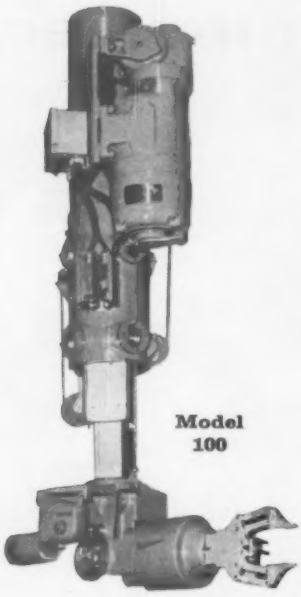
solved by General Mills

General Mills can meet most Nuclear Handling Needs with Standard Model Mechanical Arms



Six Standard Model Mechanical Arms, from the new compacts to the big 5000 lbs. capacity models — many types of mounting, including bridge, wall or boom—a whole host of standard attachments and accessories; that's why General Mills can give you the proper-sized remote manipulator from a standard line. This eliminates much custom design and engineering work. It means you can have true electro-mechanical remote manipulators at approximately the same cost as straight mechanical units. Check with General Mills early in the design stage of your program.

Technical bulletins are available on all Mechanical Arms. Write Nuclear Equipment Dept., 419 No. Fifth St., Minneapolis 1, Minn.

Six Standard Mechanical Arms—All equipped with electric drives, radiation resistant materials, portable finger-tip controls, and connections for automatic remote power tools.

Model 100—complete low cost system ready for installation. Full cell coverage and 200 lb. lift.

Model 150—provides maximum versatility in a minimum of space. For example, alpha-gamma handling in a sealed dry-box.

Model 300—general purpose model for lifting a few ounces or 750 lbs.

Model 500—medium size for handling up to 2000 lbs. with ease.

Model 550—gives great versatility on heavy loads. Handles 100 lbs. cantilevered 18 ft. and proportionally more as moment is reduced.

Model 700—strongman of the line, will lift up to 5000 lbs.

See the newest in remote handling!
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General Mills

NUCLEAR EQUIPMENT DEPARTMENT

First in Remote Handling
MECHANICAL ARMS

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new nuclear plants choose

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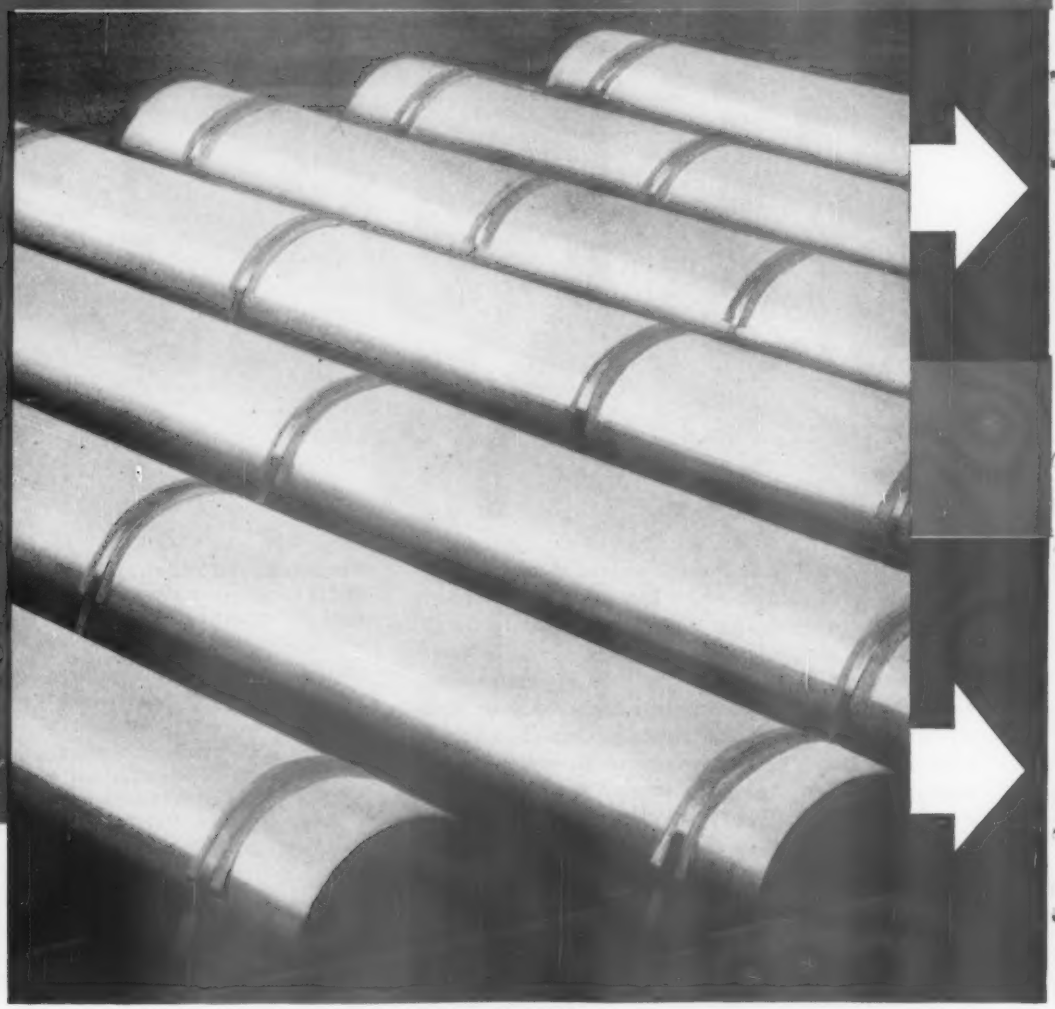


Centrifugal stainless steel castings readied for shipment by U.S. Pipe

The Government's new SPERT III nuclear plant at the National Reactor Station near Idaho Falls, Idaho, operating since December, 1958 to study nuclear reactor safety, uses U.S. Pipe's centrifugally cast stainless steel pipe for its coolant system.

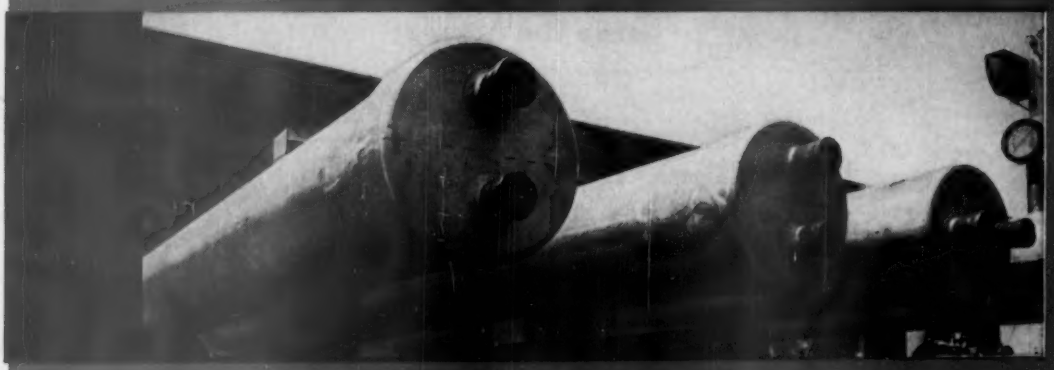
SPERT III is classified as a high pressure, high temperature, light water moderated and cooled reactor. Its versatility permits transient tests under various initial conditions of pressure, temperature, and coolant flow. For example, pressures ranging from atmospheric to 2,500 psi and water temperatures from 68° to 668° F.

Another new nuclear power plant, engineered and constructed by Stone & Webster for Yankee Atomic Electric Company, is using centrifugally cast stainless steel heat exchanger shells made by U.S. Pipe and fabricated by the Southwestern Engineering Company in Los Angeles, Calif.

Stainless steel, centrifugally cast, made to rigid specifications, may be the answer to your piping or heat exchanger problem. For more information, write or call:

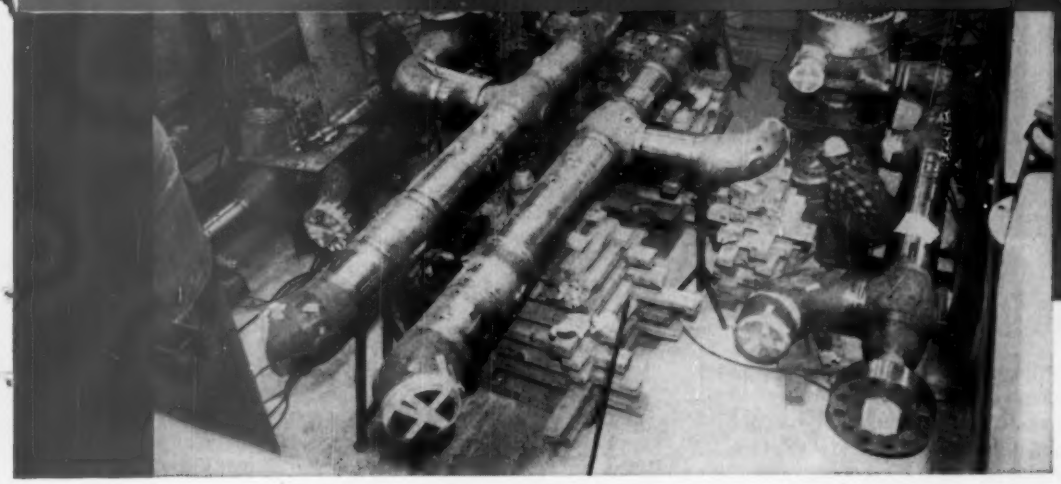
centrifugally cast stainless

REQUIREMENTS OF NUCLEAR AND COOLANT SYSTEMS



Shop-fabricated heat exchanger shells of centrifugally cast stainless steel ready for shipment to the Yankee Atomic Electric plant at Rowe, Mass.

Subassemblies of primary coolant piping of centrifugally cast stainless steel being installed in SPERT III.



ASA PRESSURE PIPING CODE STATUS

Approval has been granted under this code for the use of centrifugally cast austenitic pipe for nuclear piping by Nuclear Case N-9. This case appeared in the April, 1960 issue of MECHANICAL ENGINEERING. Reprints on request.

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The diversity of products shown here is typical of the breadth of our services. To maintain a customer's production schedule is a prime requirement—even if the assembling and shipping of a rush order must be done "after hours" as this illustration in our shipping bay shows.

Carlson Services . . .

G. O. Carlson, Inc., is primarily a producer of stainless steel plate. In addition to stainless steel plates, we also produce plate products, heads, rings, circles, flanges, and forgings. To fill complete bills of material, a stock of bars and sheets (No. 1 Finish) is maintained. Plates can be sheared, sawed, abrasive cut, flame cut, formed or machined in exact accordance with your specifications. However, we are not fabricators; we do not build equipment. We provide a specialized service in stainless steel for fabricators and manufacturers to use in their products. Engineers in the chemical process, pulp and paper, nuclear energy and other vital industries, recognize the advantages of these services.

Superior melting procedures, coupled with continuous, thorough quality control, enable us to give you material to meet AISI, ASTM or Military specifications. Our metallurgical laboratory constantly checks material-in-process to maintain these high quality standards.

Take advantage of our practical engineering services. We are ready to help you determine the most satisfactory and economical use of our material. Talk over your requirements with our salesmen, metallurgists or engineers—planning of this type often saves you money. And, to keep you currently informed on our stainless steel inventories, write for your copy of the Carlson Mill Inventory Report—it is available without obligation.

Carlson Stainless Steel Types . . .

In inventory or available on order

Chromium-nickel Types 302, 304, 304L, 305, 309, 309S, 309SCb, 310, 314, 316, 316L, 317, 317L, D319, D319L, 321, 347 and 348.

Chromium Types 405, 410, 430 and 502-½% Mo.

Precipitation-hardening Types 17-4 PH, 17-7 PH and PH 15-7 Mo.*

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Stainless steel plates . . .

Carlson stainless plates are available in a wide range of both standard and unusual grades. The largest stainless steel plate ever produced in this country was processed in our Viaduct Plant. Yet products as small as 2″ diameter stainless steel rings, cut from plate, illustrate the flexibility of our services. Plate inventory ranges from 3/16″ through 2½″ in thickness, from 48″ through 120″ in width and up to 300″ or more in length. On special orders plates can be produced up to 180″ wide, over 400″ long and up to 8″ or 9″ thick. The illustration shows only a portion of the plate inventory.

This 19 tons of Type 304 stainless plate for a nuclear application has been abrasive cut to size. It ranges from 1 to 6 inches in thickness, all ultrasonic tested.

Stainless steel special shapes . . .

Versatility of specially developed equipment provides flexibility in the cutting of sketch-plates or unusual patterns to meet your requirements.

Stainless steel forgings . . .

Open hammer forgings are regularly produced in the form of discs, rings, and larger rounds in chromium-nickel, chromium, and the precipitation-hardening grades. Most users order their forgings rough machined, but we can furnish them "in the black" if preferred.

Stainless steel tube sheets . . .

As another special service to builders of heat exchangers and similar products, we supply tube sheet blanks cut from plate or forged, whichever is specified, or most economical. In either case, we can rough machine one or both surfaces or finish machine if desired.

Stainless steel heads . . .

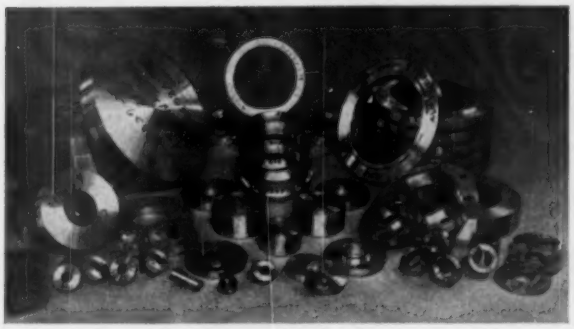
A general view of our inventory of stainless steel heads—undoubtedly one of the world's largest. ASME and Standard heads in Types 304, 304L, 316, and 316L in sizes ranging from 10″ through 72″ OD, 3/16″ through 3/8″ in thickness, are available from inventory. The flanges of most heads are bevelled for outside welding, but special machining to your specifications can be done in one or two days. Heads of other grades are obtainable on order. A large assortment of dies is also available for pressing flanged-and-dished, dished only, flanged only, elliptical or hemispherical heads. These can be produced in any grade of stainless steel, and larger or intermediate sizes can be hot spun up to 20′ in diameter, depending upon thickness.

Stainless steel bars . . .

Rolled bars and angles can be furnished in standard shapes and sizes in most grades of stainless steel. Odd flat bar sizes are cut from plate, odd angles and channels are bent from plate.

Stainless steel sheets . . .

No. 1 Finish sheets in the heavier gauges, frequently used in process equipment, are available from inventory in limited quantities.



Stainless steel items . . .

A wide variety of small stainless steel items is produced to precise specifications. Illustration shows typical items, such as tube sheets, rings, and flanges, any one of which may be essential in the construction of your stainless equipment.

G.O.CARLSON Inc.

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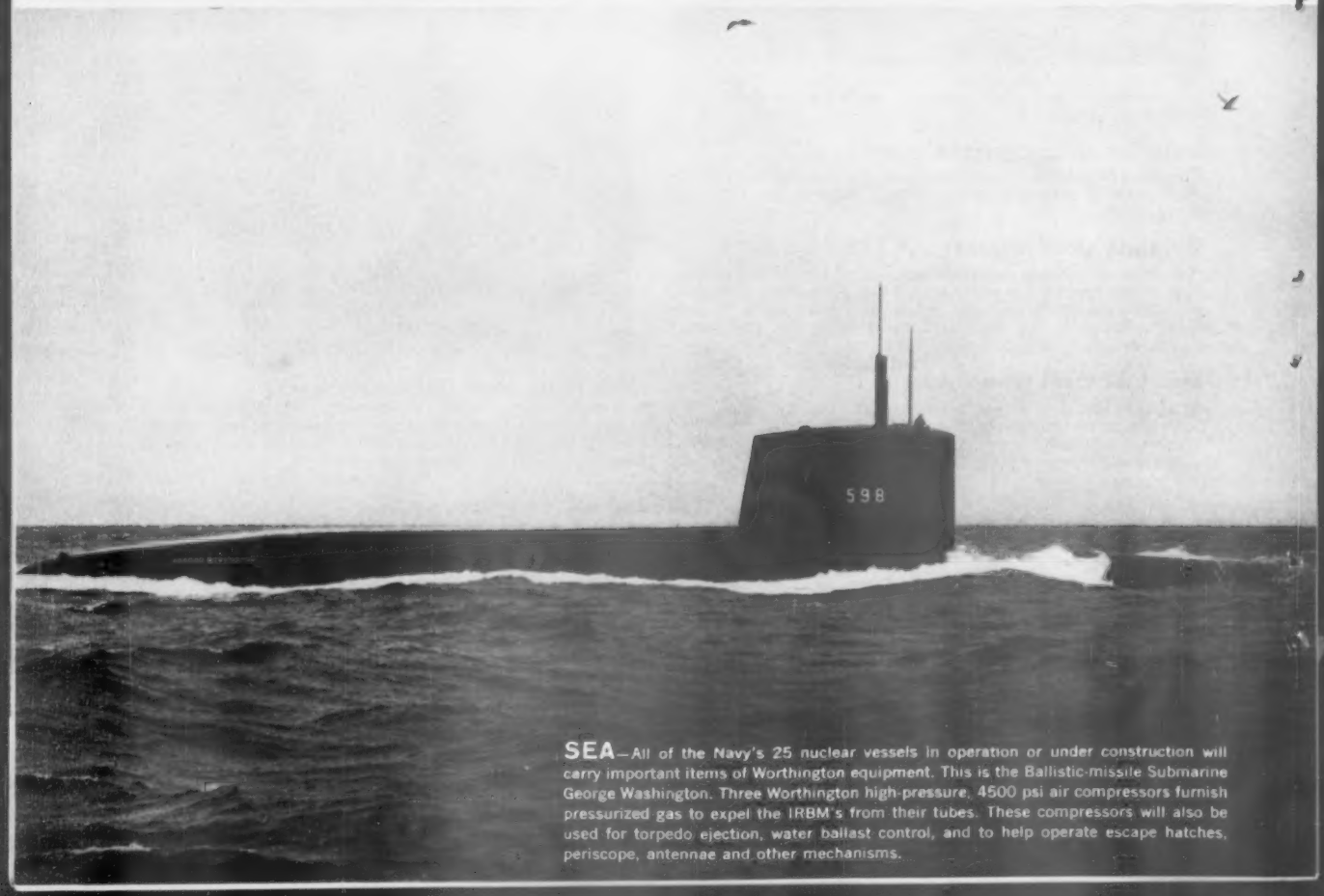
LAND—Every major nuclear power station under construction in the United States will use Worthington equipment. Above, a Worthington engineer discusses the installation of a 120,000 sq. ft. condenser in the Dresden Nuclear Power Station in Morris, Illinois. Worthington successfully solved many unusual problems in the design of this condenser including the necessity of handling full output of dump steam.



SEA—All of the Navy's 25 nuclear vessels in operation or under construction will carry important items of Worthington equipment. This is the Ballistic-missile Submarine George Washington. Three Worthington high-pressure, 4500 psi air compressors furnish pressurized gas to expel the IRBM's from their tubes. These compressors will also be used for torpedo ejection, water ballast control, and to help operate escape hatches, periscope, antennae and other mechanisms.

AIR—Portable Nuclear Power Plants which can be flown to remote locations are a reality because of such technical achievements as Worthington's aluminum tube condenser. Built for Alco Products, it will be a vital part of a nuclear plant installed in a tunnel located beneath the Arctic snow. The unit is 75% lighter than conventional condensers. It meets a 15-ton weight limitation for Air Force transportation.

LAND, SEA OR AIR

Worthington serves the nuclear industry

You can benefit from Worthington's experience in the nuclear field. Whether you are concerned with central station power plants, Navy and commercial ships, or packaged power plants, Worthington can help develop much of the primary and secondary cycle equipment you will need.

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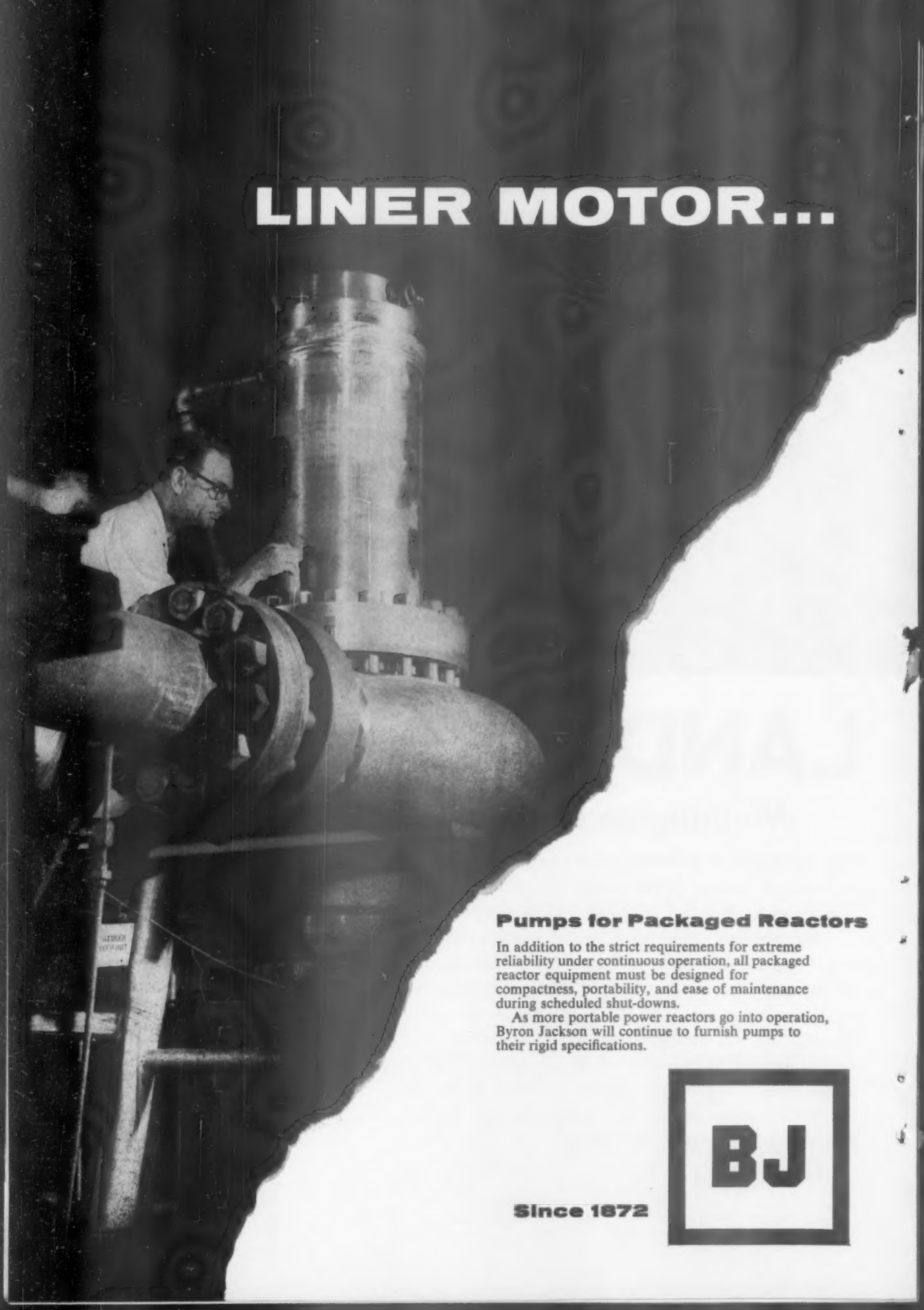
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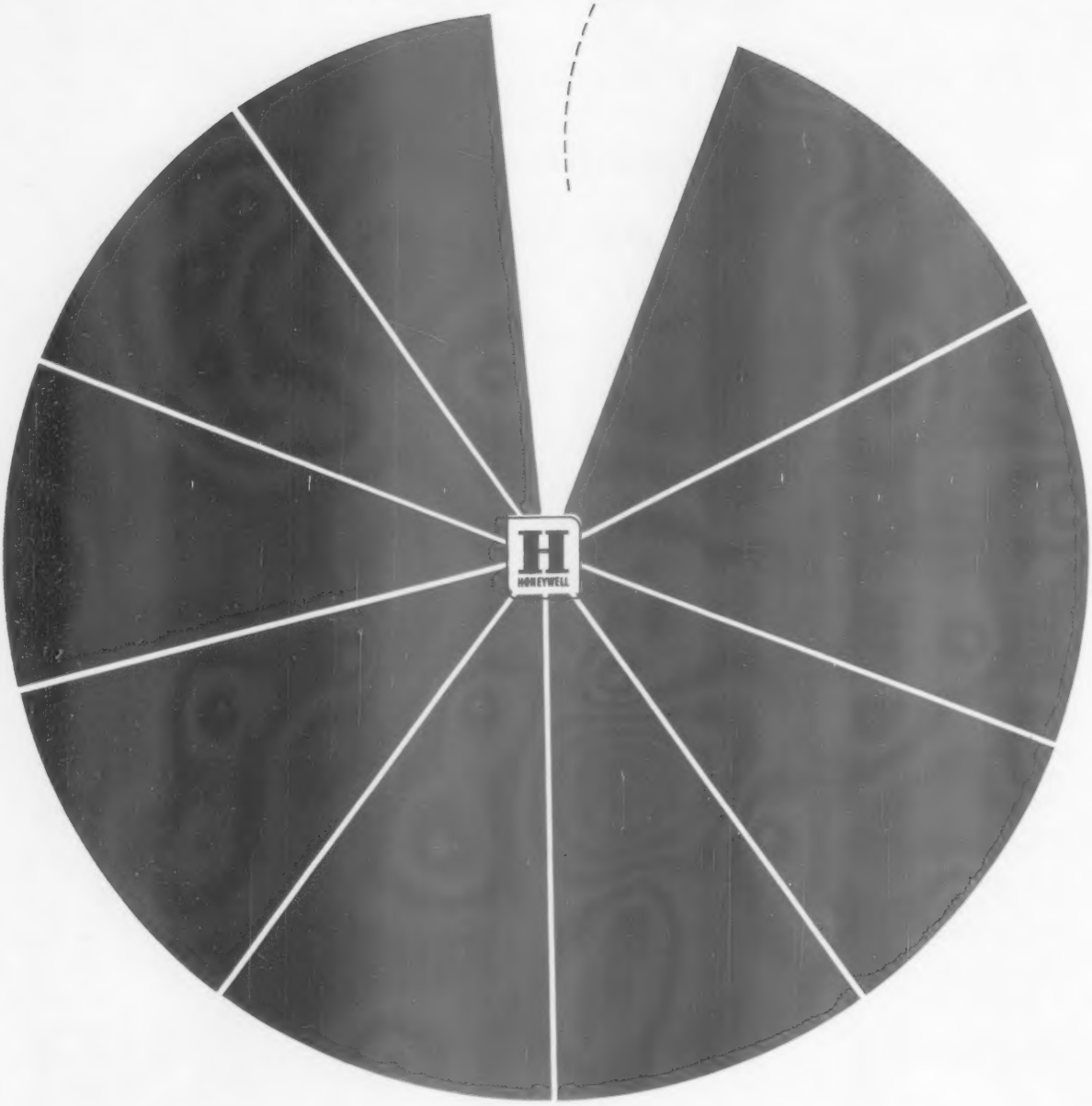

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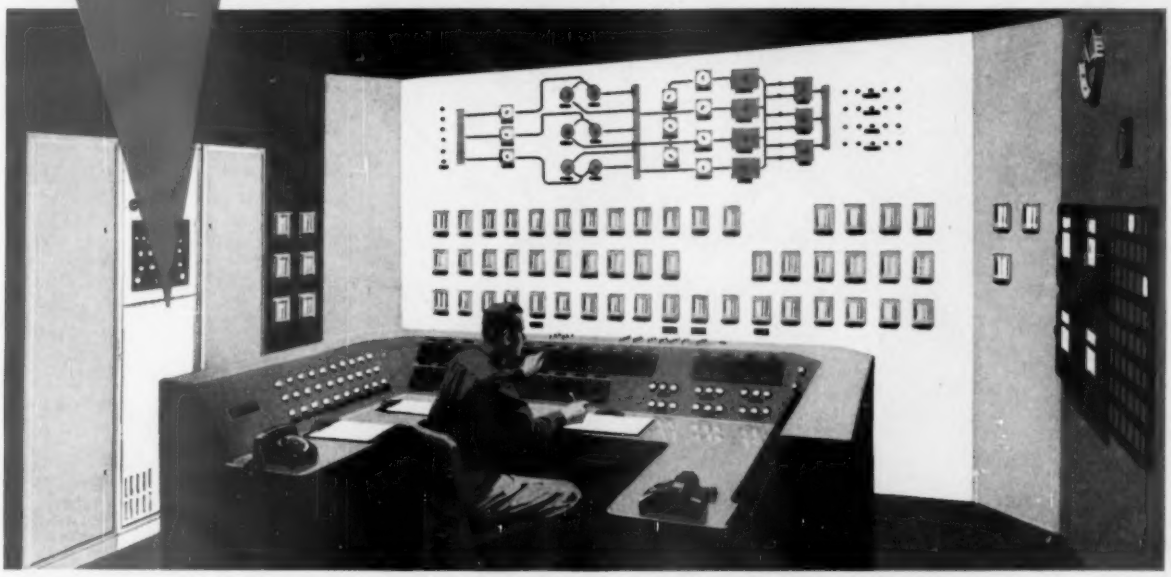

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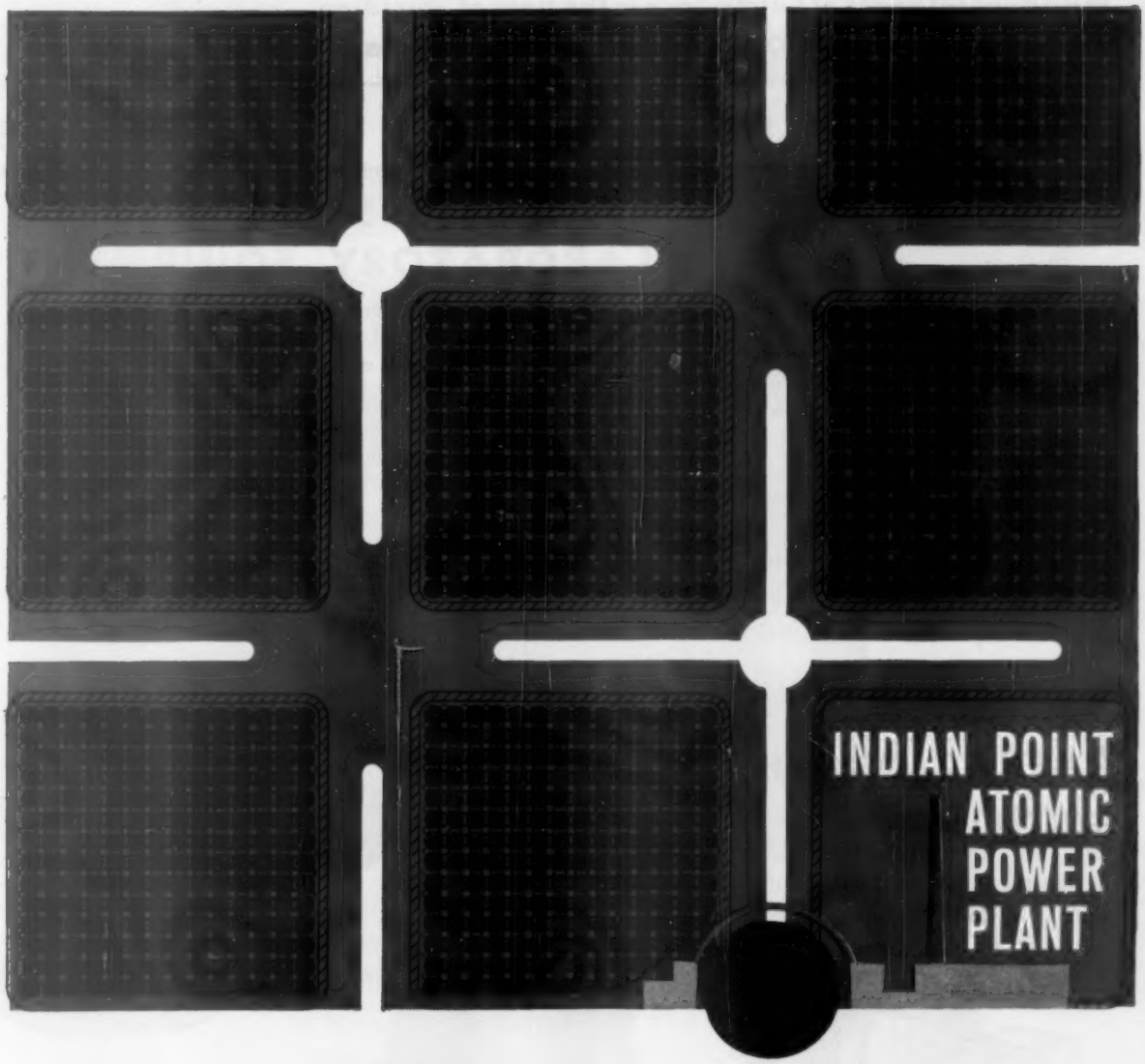

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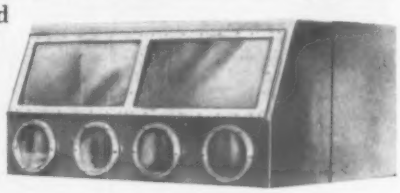

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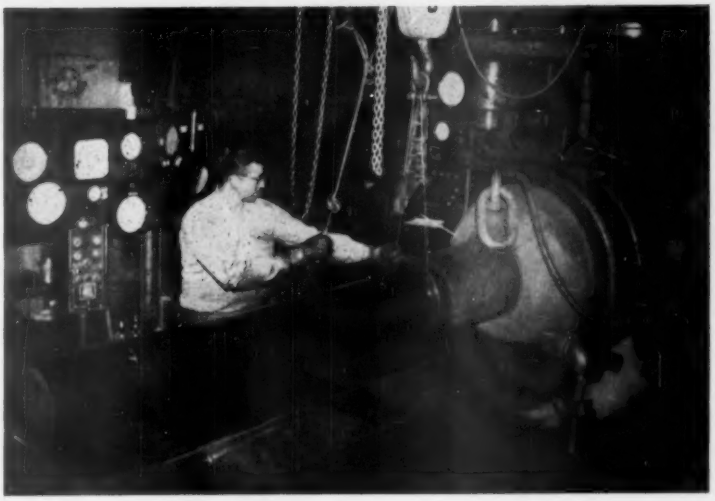

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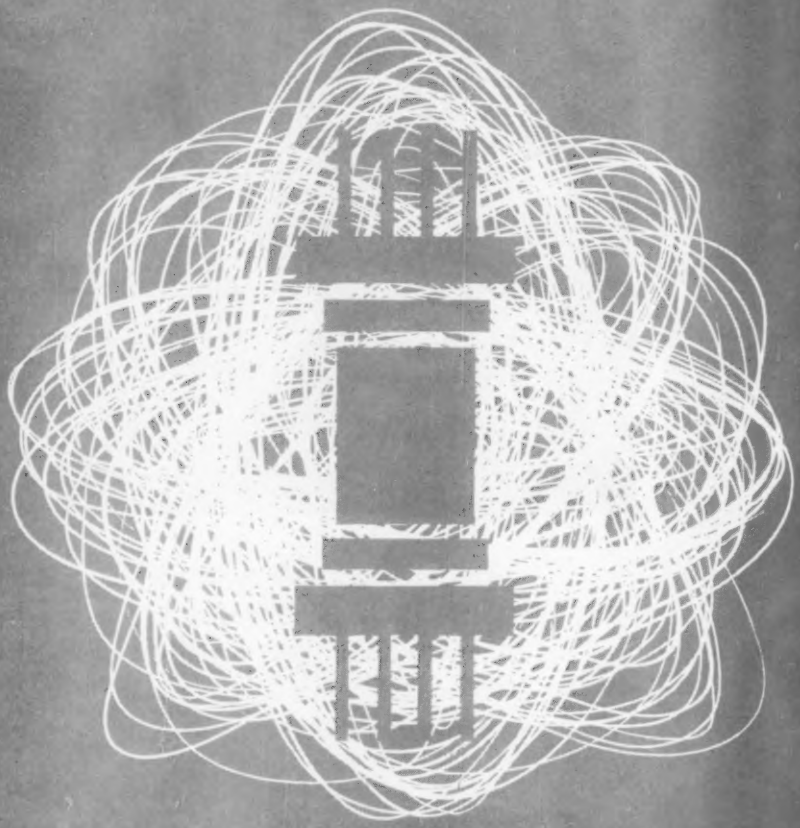

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NUCLEONICS WEEK

Adapted from the October 28 and November 3 issues

COMMONWEALTH, YANKEE DEFER IRG REPROCESSING PLANT PARTICIPATION

The hopes of private industry and the Atomic Energy Commission that a decision would be made before the end of 1960 by private industry to build a nuclear fuel reprocessing plant are fast running out, NUCLEONICS WEEK has learned. These hopes were just about dashed this month when Commonwealth Edison Co., operator of the Dresden station, and Yankee Atomic Electric Co., operator of the Yankee station, notified Davison Chemical Division of W. R. Grace & Co. that they did not want to take the next step proposed by Davison to the Industrial Reprocessing Group—engineering design of a reprocessing plant—following Davison's completion of a $250,000 economic and technical feasibility study.

Of the three other utilities in IRG—Consolidated Edison Co. of N.Y. (Indian Point plant), Detroit Edison Co. (PRDC), and Northern States Power Co. (Pathfinder)—Con Edison and Northern States are apparently willing to go ahead with the project, whereas Detroit Edison has hired an outside consultant, Elton Cole of DuPont, to review the project before they make their decision.

With Dresden and Yankee the only operating plants of the group, their withdrawal may well cripple the project, observers of the project note. AEC has told NUCLEONICS WEEK that it is eager to have IRG's decision within the next two to three weeks so that AEC can determine what its next step should be in establishing reprocessing services for industry.

IRG is pressing this week to find replacements for Commonwealth and Yankee and is said to be talking to others than utilities. The president of one of the IRG utility members said that Westinghouse may have an interest in working with the group. Asked for comment, Westinghouse told NUCLEONICS WEEK: "We have been asked by Davison whether we would be interested in participating as a member of IRG. Chances are we'll be pessimistic. We're a different breed of cat than the others in the group. The advantage to us would be that we would be able to offer a complete service to a customer without relying on the government. We have not yet made a final decision."

With all five utility members of IRG strong supporters of an industrial reprocessing plant, the defection of Commonwealth and Yankee is said to be based on dissatisfaction with the economics of the proposed plant as determined by today's technology. Commonwealth told NUCLEONICS WEEK:

"The capital cost of the plant is estimated to be $20-23-million instead of the $12-15-million originally estimated. In addition, when we began to figure the reprocessing load involved, we saw how important the load factor was. If one reactor were delayed, it would have a great effect on the unit cost. We had hoped it might be possible to store solid fuels for several years, building up a stockpile. Then, in building a plant at a later date, we would be able to take advantage of technical

PRESENTING NUCLEONICS WEEK

This month, in place of the usual News of the Month, NUCLEONICS presents a special news section. It is made up of articles from two recent issues (Oct. 27 and Nov. 3) of NUCLEONICS WEEK, the weekly newsletter published by NUCLEONICS. The format is that of NUCLEONICS WEEK, which brings to its readers each week the latest, most important developments of the previous week in the atomic field. What we publish here is a composite of two successive issues of NUCLEONICS WEEK to provide a sample of the character of the publication. It is not possible, owing to the production and mailing schedules of a monthly magazine, to duplicate here the timeliness of the six-page newsletter which is sent out by first-class mail or airmail every Tuesday night.

If you have not yet seen NUCLEONICS WEEK itself and would like to get authoritative information on governmental and industry activities in the nuclear field write for a sample issue. Just write The Publisher, NUCLEONICS WEEK, 330 West 42nd Street, New York 36, New York. Subscription rates to NUCLEONICS subscribers: $75 a year in the U. S.; $90 abroad.

advances and have the benefit of a good load factor. Commonwealth's contribution to the next step in the project was to be $100,000 out of about $½-million. We are not ready to take this step now."

The IRG design was described to NUCLEONICS WEEK as having a capacity of 1 ton per day, 300 days per year. Pricing is based on 200 reprocessing days per year, with 150 of these supplied by IRG members. The additional 50 days load per year would come, the group hopes, from AEC (NU May '57, 17, 22). As an index, the processing load from Dresden will be: 1962–19 tons; '64–19; '65–42.2; '66–23.6; '67–23.6; '68–47.2; '69–23.6; '70–23.6. This totals 278.8 tons.

Commonwealth Edison indicated it hopes to take advantage of the model contract proposed by AEC. AEC's charges per day, based on straight-line escalation, are: original base - $15,300; July '60 - $16,850; 1968 - $19,950. IRG's prices are said to be about 20% higher than AEC's.

AEC announced some time ago (NU, Feb. '60, 72) its plans for reprocessing industrial fuels on an interim basis at four sites --Idaho Falls, Hanford, Oak Ridge and Savannah River. Current AEC staff recommendations concerning AEC's reprocessing obligations, if IRG negotiations fail, are said to be aimed at doing the work, including integration of research and development programs, at minimum costs. Concentration of industrial work at two sites, Savannah River and possibly Idaho Falls, instead of the four sites originally proposed is being considered by the AEC staff.

N. Y. WORLD'S FAIR DROPS REACTOR POSSIBILITY AFTER ADVERSE AEC OPINION

The management of the 1964-5 New York World's Fair has dropped a tentative plan to use a small nuclear power plant at the Fair. The idea was abandoned several weeks ago after AEC had made it clear that it was against positioning a plant at such a densely-populated place as Flushing, N.Y. (just east of LaGuardia Airport). The Fair's managers, headed by Robert Moses, had wanted to borrow a 10-Mwe barge-mounted reactor from the Army to feed electricity via the Con Ed system to Fair concessions and exhibits. The barge-mount project is still in competitive bidding for a design contract (NU Wk, 28 July '60, 1) and there was a real question, in any case, whether it would be ready before the end of 1964. However, AEC's Hazards Evaluation branch, Licensing and Regulation div., reviewed the Army Engineers' bid specifications on the 10-Mwe plant and ruled, in effect, that the reactor was too big for the Flushing Bay site (in the heart of New York City's 1.9-million-population Queens borough).

Among other things, the adverse AEC opinion gave emphasis to the current cautious attitude of the Commission toward reactor siting. Although AEC had no concrete reactor design to consider, the barge-mounted reactor is planned as a "proven," pressurized-water reactor of only two-thirds the size of NS **Savannah's** reactor, also pressurized-water. **Savannah's** proposed schedule includes visits to New York and other ports.

The Fair management had actually discussed with AEC and the Defense dept. the possibility of using a 400-kwe gas-cooled reactor at Flushing, as an alternative to the larger barge plant. However, the preference was for the 10-Mwe plant and the trailer-mounted gas reactor (ML-1) was not seriously reviewed for hazards. Informal indication from AEC, however, was that even this relatively tiny plant would not be acceptable at the Flushing location. In late September, Robert Moses wrote to the New York Office of Atomic Development that the whole project was being dropped because "We have now been advised that the staff of the Atomic Energy Commission considers the state of the art not sufficiently advanced to permit placing a power plant at the World's Fair."

ROGERS McCULLOUGH JOINS NUCLEAR UTILITY SERVICES, INC.

C. Rogers McCullough, long-time chairman of AEC's important Advisory Committee on Reactor Safeguards and long-time employee of Monsanto Chemical Co., retired from Monsanto on Oct. 1 and has joined Nuclear Utility Services, Inc., (NU Wk, 21 July '60, 5) as director of reactor safeguards and scientific advisor to the company's board of directors. John Gray, president of NUS, said that during McCullough's continuing tenure on ACRS his work for NUS on reactor safeguards will be limited to reactors built abroad.

A REQUEST FOR PROPOSALS FOR RESEARCH-DEVELOPMENT ON A NUCLEAR ROCKET ENGINE will be sent to a number of manufacturers, the AEC-NASA Joint Office for nuclear rocket propulsion says. This decision to select a contractor to provide engineering support and conduct research-development work cancels the earlier NASA request of Aug. 19 for proposals on a six-month preliminary design study. The change comes, the Joint Office said, as result of an evaluation of program requirements that indicated early selection of an industrial contractor would be in the interest of the nuclear rocket propulsion program.

IN WASHINGTON

McCONE OPTIMISTIC ON NUCLEAR POWER, FEELS BUDGET ADEQUATE

When John A. McCone took over as chairman of the Atomic Energy Commission in 1958, the Commission was under considerable pressure from Congress to accelerate the reactor program. There was much dissatisfaction with how the U. S. effort stacked up against that of the U. K. and U.S.S.R. In 1959, the pressure on AEC from Congress decreased appreciably, in part because of the new rapport between the two bodies, in part because of the reduction in competitive pressure from abroad. And, in 1960, civilian atomic power seems to have lost its glamour—and political appeal—to the point where the earlier pressure appears to have been replaced by a vacuum.

Thus, observers of the industry have not been surprised in recent months to see at least four AEC reactor projects stalled for various reasons. The small-sized pressurized water reactor and the process heat reactor are having site acceptability problems; the medium-sized boiling reactor is having contractor selection difficulties; and the medium-sized organic reactor is not finding any industry interest.

It was with this background that NUCLEONICS WEEK interviewed McCone last week.

Optimism. He made it clear that the Commission is giving great weight to industry's efforts in determining AEC's own program. In this regard, he expressed great optimism about the prospects for the two large plants proposed by Southern California Edison and Pacific Gas and Electric coming to fruition. So confident is he about this that he states he has not even considered what AEC would do about its own program should these projects fall through. To encourage those projects, he said, "We have to do two things—help those plants with generous research and development support, and waive fuel charges for five years." On what else the AEC plans to do, McCone indicated that the Commission was willing to consider other unsolicited proposals.

Beyond that, he stated with firmness, the Commission intends to build the Los Angeles medium-sized boiling reactor and the organic-moderated and -cooled reactor for which AEC has unsuccessfully sought industry interest. He expects a decision in 2-3 weeks on who will build the Los Angeles plant. He does not feel at all discouraged about the rate of progress of the reactor program. In fact, McCone said, "I am more optimistic now than I have ever been about the prospects [for economic nuclear power]."

Budget. And he feels that the level of support of reactor work in AEC labs and contractor facilities is just right. In answer to criticism from the field about cutbacks in the fiscal '61 reactor funding, McCone commented sharply: "Every single defendable project is being funded in '61 and '62. Research is infinite but the purse is finite."

Reprocessing. In reinforcement of his position that private industry should take on as much of the work as possible, he expressed himself strongly on the role of AEC on reprocessing of nuclear fuels: "We dislike going into the reprocessing of industrial fuels because it puts us into this business. Once you're in the business, it's hard to get out. However, we made a commitment to the industry and have a moral obligation to arrange to reprocess their fuels. We intend to do this but we want to give the industry every encouragement. We are perfectly willing to consider having the industry process our unclassified cores." He pointed out that there are several private organizations interested in getting into the reprocessing business, and, he said, "I am very, very hopeful that someone will come forth with an acceptable plan....We can wait a few months or at least until the first of the year [before we have to move ahead with our own plans to handle industrial fuels]."

Safeguards. On the question of delays in the program caused by adverse decisions on reactor safeguards, he emphasized the responsibility of AEC to concern itself with the public health and safety. He said that the present state of the art is such that "we must provide an exclusion area and remoteness of location. We are not prepared at this time to deviate from our established practice of siting reactors when in our opinion and that of our advisory committee a particular site is not considered safe."

"If we overlook the importance of giving the public [a realistic picture of reactor safety problems]," McCone pointed out, "we will set the technology back years. We must let the public know [what is going on]. We can't run over that."

WORLD NEWS

INDIA'S AEC CHAIRMAN SAYS THE TARAPORE REACTOR WILL USE ENRICHED URANIUM only if bids for natural uranium were "completely unsatisfactory." In a special interview with NUCLEONICS WEEK's Paris correspondent, Chairman Hamo Bhabha clarified the specifications recently made available for India's $107-million, 300-Mwe reactor near Bombay (NU Wk, 20 Oct. '60, 1). He also commented that India is "determined to become self-sufficient in nuclear energy" (because of foreign exchange problems), and that his country could manufacture all the needed natural uranium for years to come.

He also set out India's long-range nuclear program beyond the Tarapore reactor, scheduled for completion by 1965: by 1980, 20-25% of India's electric power is to be produced by nuclear stations. Surveys already show nuclear power is economically competitive with conventional power in areas such as the Bombay region, following completion of its five-year plan (NU Wk, 23 June, '60, 5). Although Tarapore will be built by foreign contractors – Russia is one of many expected to bid (NU Wk, 22 Sept. '60, 5) – India's growing nuclear industrial interests will gain know-how, and supply 50% of all materials.

Factors that will weigh heavily in bid selections will be 1. foreign exchange requirement, 2. total price, 3. use of natural uranium fuel.

Bhabha, who is now touring Europe's nuclear industries and power stations with an eight-man team, is expected to arrive in New York about Nov. 10 to discuss reactor types with U. S. industry.

FRANCE PLANS TO ALLOCATE $253-MILLION IN 1961 FOR ITS CIVILIAN NUCLEAR PROGRAM, Pierre Guillaumat, Minister for Atomic Energy, disclosed to a committee last week, prior to submitting budget plans to the National Assembly. Of this amount, up $60-million over last year, $214-million is earmarked directly for the program, plus $25-million in loans from the Economic and Social Development Fund advanced for nuclear power stations. The Commissariat à l'Energie Atomique will contribute $14-million earned from revenue-producing activities such as isotope sales.

In addition to the civilian program, $191-million will be spent on military atomic projects.

Part of 1961 plans include development of transistorized reactor power and period instrumentation at the Grenoble research center by the CEA. Date for installation of the new equipment in the Mélusine pool reactor at Grenoble and the Triton pool at Fontenay-aux-Roses has not been set.

EUROCHEMIC PLANS A TWO-STAGE APPROACH IN DESIGNING THE IRRADIATED FUEL processing plant to handle spent fuel elements from the 13 European nations participating in the $21.5-million project at Mol. Belgium. First stage calls for a multipurpose dissolver for batch or semi-continuous operation with fuels enriched up to 1.6%. Later, a semi-continuous unit geometrically safe for enrichments up to 5% will supplement the first dissolver. Flowsheet for the plant, slated to go on stream in 1964, calls for a two-cycle purex process using a 30% solution of tributylphosphate in Hydrocarbon diluent. Pu tailend treatment has not been designed since Eurochemic's schedule allows time for more research work on counter-current extraction with tertiary amines before the Pu tail-end part of the design is frozen. Construction is slated to start next summer.

DUTCH PROVINCIAL POWER STATIONS HAVE COMBINED EFFORTS TO REINSTATE PLANS for a nuclear station after previous negotiations for a plant in Geertruidenberg (Southern Netherlands) were discontinued in December. This group, SEP (N.V. Samenwerkende Electriciteits-Productiebedrijven) will be helped in its three phase program by KEMA of Arnhem, the Reactor Center Netherlands and American industry.

The first phase (about 600,000 guilders or $156,000) calls for preliminary studies for a power station with engineering and technical advice provided by U.S. firms within the next six months. The second phase calls for a study of Dutch industry to determine whether it can provide needed components, materials, etc. Third phase calls for construction.

SEP has indicated that the reactor station must compete with conventional stations, be developed through their own industrial resources, and be "reasonable" in costs. Also, the SEP says it "is determined not to wait too long with the beginning of the project."

RADIATION NEWS

SEMICONDUCTOR DETECTORS, ION SOURCES ARE FIRST PRODUCTS OF ORTEC, a new technical company founded as an extracurricular activity by a group of twenty five scientists and businessmen, mostly from the Oak Ridge area. As implied by the full name of the company—Oak Ridge Technical Enterprises—activities will not be restricted to any one sector of nuclear technology. ORTEC has only two employees at present; president is Harold W. Schmitt of Oak Ridge National Laboratories Physics Division. First bets are being placed on r-f ion sources for accelerators and on semiconductor detectors (NU Feb. '60, p. 54) of the surface-barrier type. ORTEC is also marketing amplifiers for use with semiconductor detectors made by Ed Fairstein's Oak-Ridge-based Tennelec Instrument Co. (NU Wk. 22 Sept. '60, p. 4).

OTHER NEWCOMERS TO THE SEMICONDUCTOR-DETECTOR MARKET include Amperex Electronic Corp. of Hicksville, N.Y., (which recently hired Jim McKenzie, pioneer in the field, from Chalk River, Canada) and Anton Electronics Labs., Inc., Brooklyn, N. Y. (whose president Nicholas Anton told NUCLEONICS WEEK that his company had been looking at this new radiation-detector field for some time and would get in soon.). Already in the swim are RCA Victor of Canada Ltd., Hughes Aircraft Co.'s Nuclear Electronics Laboratory, Solid State Radiations and ORTEC (See preceding item).

CONTROLS FOR RADIATION HAS GOTTEN THE PLUM BROOK CONTRACT for health physics and custodial services at the Sandusky, Ohio, test reactor of the National Aeronautics and Space Administration. Estimated at a few hundred thousand dollars, the contract runs for a year and gives Con-Rad a foot in the door for year-to-year renewal (NU Wk, 22 Sept. '60, 2). Some 40 Con-Rad people will be assigned to Plum Brook to perform the contractual services. The company was one of three finalists selected from among about a dozen original bidders (the other finalists were RCA Service Co. and Tracerlab, Inc.). Meanwhile, Con-Rad President Irving Berstein reported that company sales were up 50% over 1959 and profits will be up "a few hundred percent, now that we've gotten to a more efficient size."

NASA'S LEWIS RESEARCH CENTER, CLEVELAND (which is responsible for the Plum Brook reactor), has issued a letter of contract to Radiation Dynamics, Inc., for a $170,000, 3-Mev, 30-kw, positive-ion and electron accelerator of the type RDI sold earlier this year to Convair at San Diego. The accelerator, to be delivered by November, 1961, will be used for studies in radiation damage to materials for use in outer space (radiation effects on components and systems). RDI says the bulk of its business has been in the space-missile field, where radiation-effects work has been steadily increasing. The firm has launched a campaign to develop more business in this area, including the possibility of using its radiation machines for development of electrostatic (ion) propulsion.

Meanwhile, the firm was nearing completion of the test run on its first machine to be marketed – a 1.5-Mev, 15-kw electron accelerator for Cambridge Air Force Research Center, Mass. Delivery of the machine has been delayed for about 90 days but will be made within the next two weeks. RDI recently delivered a 30-kev, 30-milliamp Dynamag ion source, also its first, to Grumman Aircraft.

MARTIN AND PENN STATE UNIV. HAVE SIGNED A CONTRACT for lease to Martin for two years of the five large hot cells at Quehanna, donated to Penn State by Curtiss-Wright (NU Wk, 28 July '60, 4; 25 Aug. 2). Martin has been seeking to build or lease such a facility for handling strontium-90 and fabricating Sr-90 isotopic generators for the Navy and Coast Guard. Martin has re-applied to AEC for a license to operate the Quehanna facility and expects to start work as soon as it is issued.

RADIATION NEWS NOTES: More than 250,000 ft of radiation-grafted wire have been shipped by **Radiation Applications, Inc.,** since the firm introduced its Raibon-irradiated Teflon wire. The wire is finding "large-scale" use in space and military electronics applications, RAI President Monroe Pofcher said, with negotiations active for sales to "several large users" in other markets . . . . **Stromberg-Carlson,** which supplied much of the reactor instrumentation to PM-2A in Greenland, has been given a $165,000 contract by Martin to supply the instrumentation for PM-3A, which is to be shipped to Antarctica in a year.

REACTOR NEWS

YANKEE IS SET TO START TURBINE, POWER RUNS. "Zero power" tests concluded since criticality was reached August 19th have verified reactor-physics parameters (the core is "just a shade" more reactive than expected) and control effectiveness of the Westinghouse-built pressurized-water reactor of Yankee Atomic Electric Co. This week or next Yankee will finish mechanical checks and start to roll the turbine. Once it and the generator are synchronized, the plant will be brought to 15 Mwe and tests will check reactor power coefficient, coolant flow, shield effectiveness and transient behavior, including pump-off performance. Then full licensed power of 110 Mwe (392 Mw thermal) will be approached in similar steps of less than 30 Mwe. Thus, 4–6 weeks from now (and 6–8 weeks ahead of original schedule) Yankee expects to start a 500-hr continuous run, on the basis of which it will seek a revised license to operate at 136 Mwe (485 Mw heat) after the first of the year. Only troubles encountered have been the usual minor ones: one control-rod drive mechanism was faultily adjusted (a replacement has been installed); hard nickel flat gaskets in the main pumps leaked (replacement copper gaskets are holding well, offer hope that seal-welding can be avoided). "Over-all," Yankee management cautiously says, "things are going well."

A SMALL REACTOR TO POWER A DEEP-DIVING BATHYSCAPHE HAS BEEN PROPOSED TO THE Navy by General Atomic division of General Dynamics. An extrapolation of Triga technology in a 25-50-kwe size (to deliver 35-70 hp), the reactor would provide all the power needs of an oceanographic research craft: propulsion and shipboard power for instruments and communication, ventilation, searchlights and cameras, etc. Such a reactor could also be used to power buoys, etc. The Navy is considering the proposal.

A NEW FUEL ELEMENT CONFIGURATION FOR THE PEACH BOTTOM REACTOR has been giving very promising results to date. The new approach has thorium-uranium-carbide pellets sealed in a high-density graphite tube, which is surrounded by a very small annular space containing helium that sweeps out what fission-product gases leak through; outside the annulus is a second high-density graphite tube that separates the helium sweep stream from the main coolant stream. The work on this concept has been so good thus far that it may be adopted for the first core of the Peach Bottom, Pa., High Temperature Gas Cooled Reactor, eliminating a first transitional core using metallic cladding—which now appears more difficult than the eventual goal of an impervious-graphite-clad core.

AN EXPANSION OF THE ARGONNE LOW-POWER REACTOR, completed a month ago, is now undergoing performance tests, NUCLEONICS WEEK has learned. The "Power Extrapolation Experiment" is an aircooled fin-tube condenser with a capacity of 13,000 lb/hr of saturated steam; it will permit raising reactor power from 3 Mwth to 8.5 Mwth. (This would permit output of 1,500 kwe, were the additional steam from the core fed to turbogenerators instead of being dumped to the new condenser; the reactor was designed to, and can now, make 300 kwe.)

On the other hand, a serious problem at ALPR has arisen with the boron burnable-poison side strips spot-welded to the outside walls of the modified-MTR-type fuel elements. The strips on the center 16 elements have corroded extensively, to about 50-75% by volume with an absolute loss of boron-10 of about 18%. Certain strips have been completely disintegrated; others bulge outward between spot-welds and will make removal of fuel elements singly difficult or impossible. The phenomenon is attributed to boron "growth" and radiation-dependent corrosion of the sintered-aluminum-powder processed aluminum cladding. This has resulted in a lower percent of reactivity held in burnable poison, and a consequent lower rod position for a given power level. In addition, the boron has been depleted at a rate faster than anticipated. Cadmium strips and probably cadmium rods will be inserted into the reactor to aid in controlling reactivity.

PURIFICATION AND FABRICATION OF U-233, SAID TO BE FOR THE FIRST TIME on a commercial scale by private industry, will be undertaken by Davison Chemical division of W.R. Grace & Co. at its Erwin, Tenn., plant. The remotely controlled operation will be aimed at producing fuel for Atomics International's Advanced Epithermal critical assembly. Under its original contract with AI, Davison was to receive purified U-233 from AEC for conversion to oxide and fabrication into aluminum-clad platelets. However the contract was modified to include purification by Davison in addition to the subsequent steps. Purification will be by dissolution in acid and solvent extraction behind concrete. Remote handling is required because of the daughter products built up in U-233.

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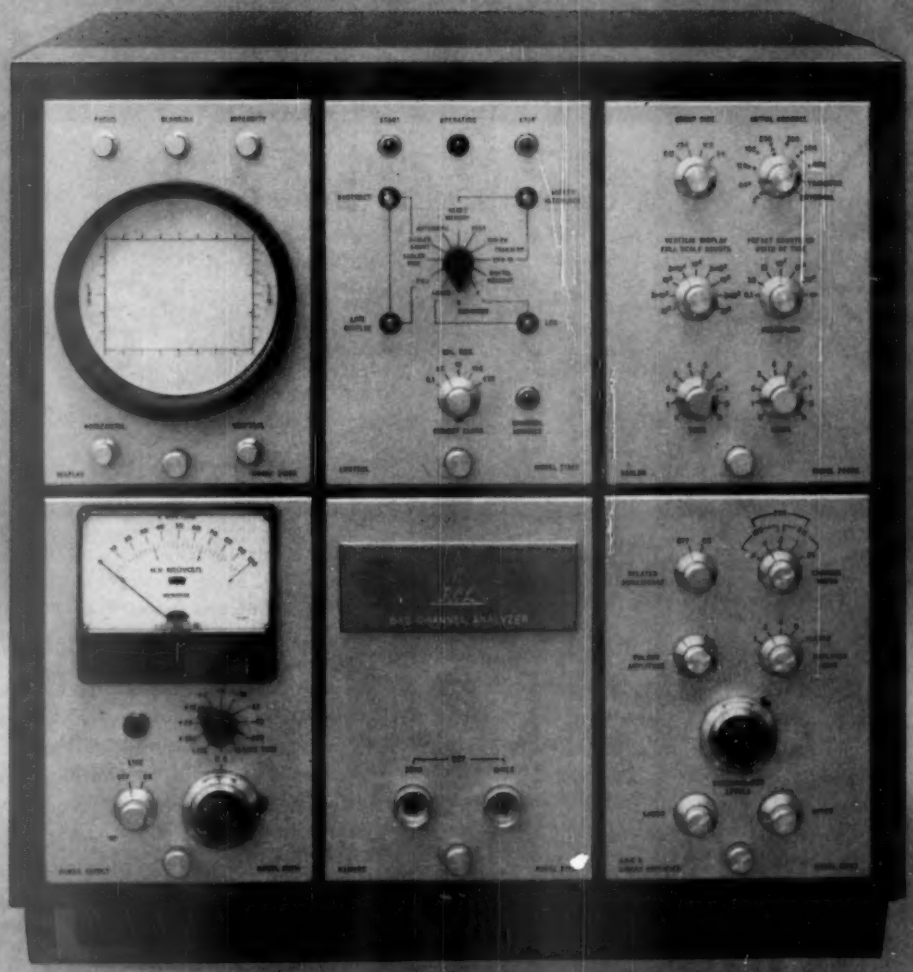

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Catching the Drift of Gyro Bearings

The fantastic accuracies needed by inertial guidance systems for space flight depend on the suppression of gyro drift, the tendency of a gyro to precess from minutely occurring internal torques. Particularly puzzling has been the problem of "jogs," or sudden axial shifts, within gyro spin-axis bearings. Shifts of but one ten-millionth of an inch can cause serious steering error.

Specialists at the GM Research Laboratories have found that the real key to drift lies in the thickness and distribution patterns of bearing lubricating films. Only a tenth of a milligram of oil – equivalent in volume to less than two-thousandths of a drop of water – is required in a gyro bearing, but even this amount unevenly distributed may cause jogs.

Conducting unique studies of single bearings apart from rotor assemblies, GM Researchers use a hydrostatic spindle and special instrumentation to take film-thickness measurements they compare with hydrodynamic theory. Jogs, due to excess oil supply, have been analyzed in relation to surface oil transfer and separator feed control, ball spin orientation, displacement, and differential heating and ball wander.

This experimental and analytical approach is achieving progress toward jog-free, stably distributed, and suitably thick oil films required in high-precision bearings. It is a further example of the critical and advanced research General Motors carries out in seeking "more and better things for more people."

General Motors Research Laboratories
Warren, Michigan

The fluoresced streaks show the disturbed "wake" of the lubricating film during bearing operation. The active part of the film, too thin to fluoresce visibly, averages ten-millionths of an inch in thickness.

T/A Instruments and Systems for Nuclear Research and Radiation Measurements

HEALTH PHYSICS

For many years, T/A has led in the development of personnel monitors for the automatic detection and measurement of radiation contamination. T/A portable survey meters are the most widely used radiation survey meters in the world.

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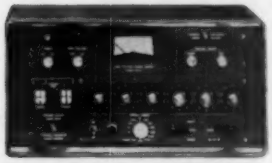
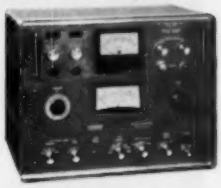
COUNTING & ANALYTICAL SYSTEMS

MODEL GTS-6 SCALER shown with Model RHV-3 5000 Volt Power Supply



High speed decade scaler has pulse resolution better than 1 microsecond. Model RHV-3 H.V. Supply is used for Geiger and proportional counting.

SPECTROMETRY SYSTEMS



The T/A Gamma Ray Spectrometry Systems feature gated beam circuits for exceptional stability, and offer all possible combinations of analytical, counting, and recording components to give the nuclear scientist optimum flexibility and versatility. (Polaris System illus.)

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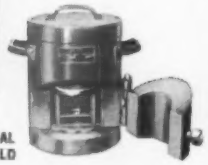

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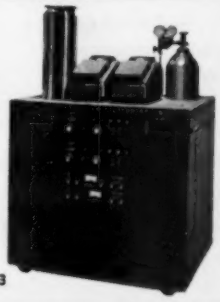

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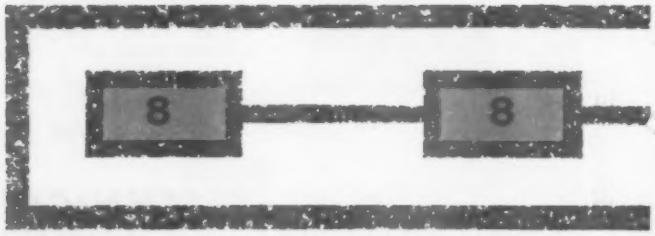

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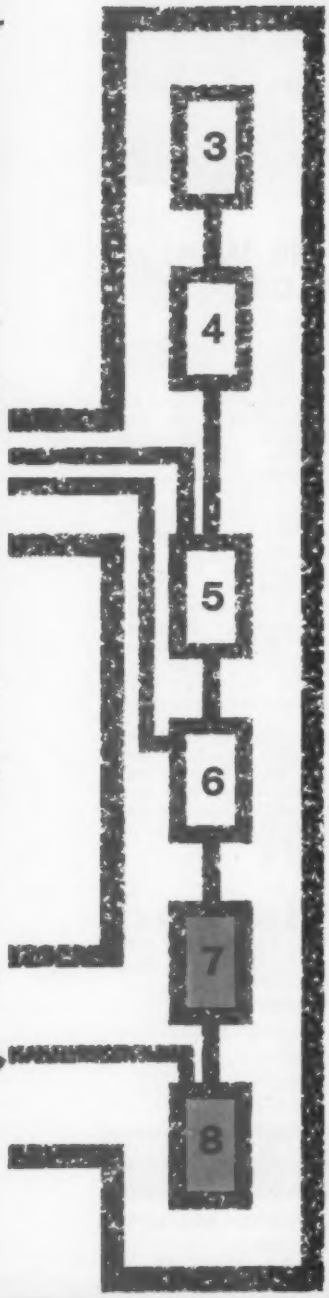

The world's first modular nuclear power plant has now been installed in the ice cap at Camp Century, Greenland, by Army engineers. Designated PM-2A, the plant will provide 1580 net ekw to the camp's electrical distribution system, and 1,000,000 Btu/hr for heating and other purposes.

The PM-2A was designed and developed by ALCO Products, Inc., and 9 of the 13 modules were prefabricated in six ALCO plants across the U. S. This unique skid-mount construction not only made it possible to meet low package weights, but also permitted complete installation during one short Arctic summer.

The extremely small size and portability of PM-2A are evidence of ALCO's creative design and/or fabrication of all its components—a capability which ALCO has demonstrated many times in designing and building nuclear components for 9 out of 10 major U. S. reactors.

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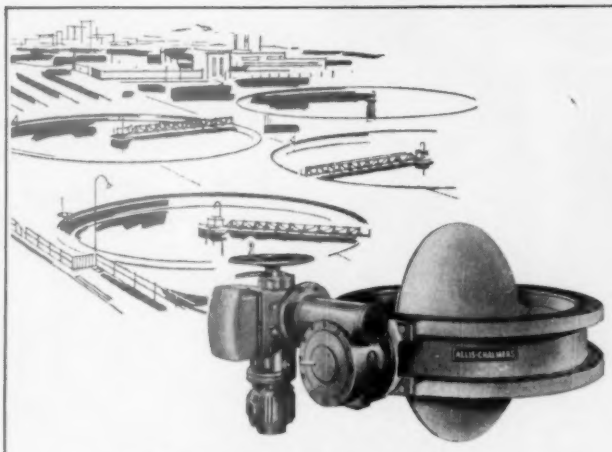

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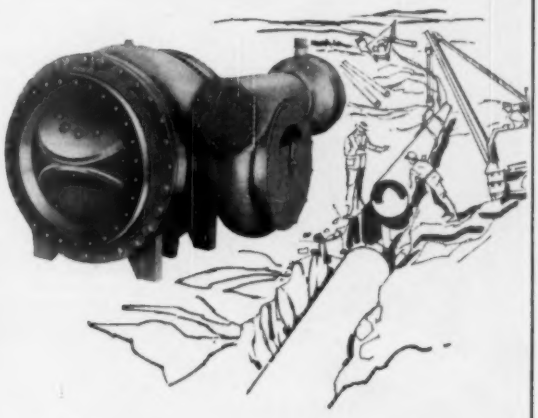

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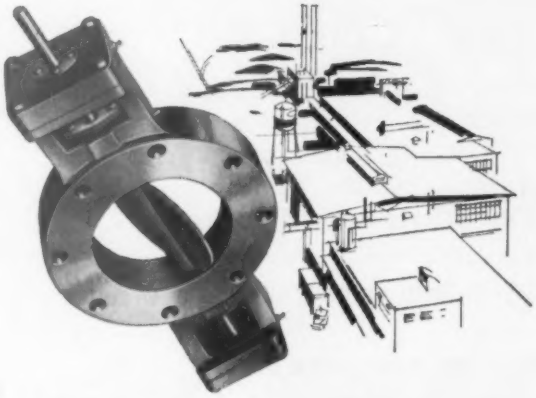

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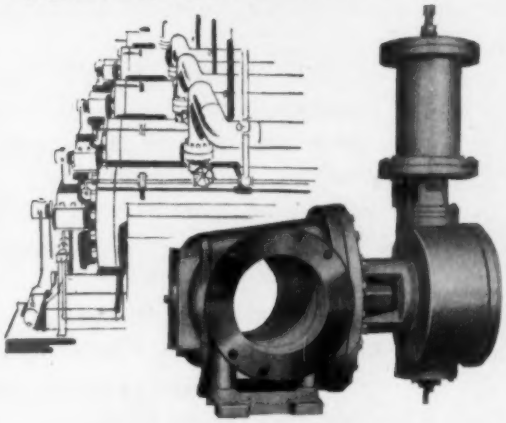

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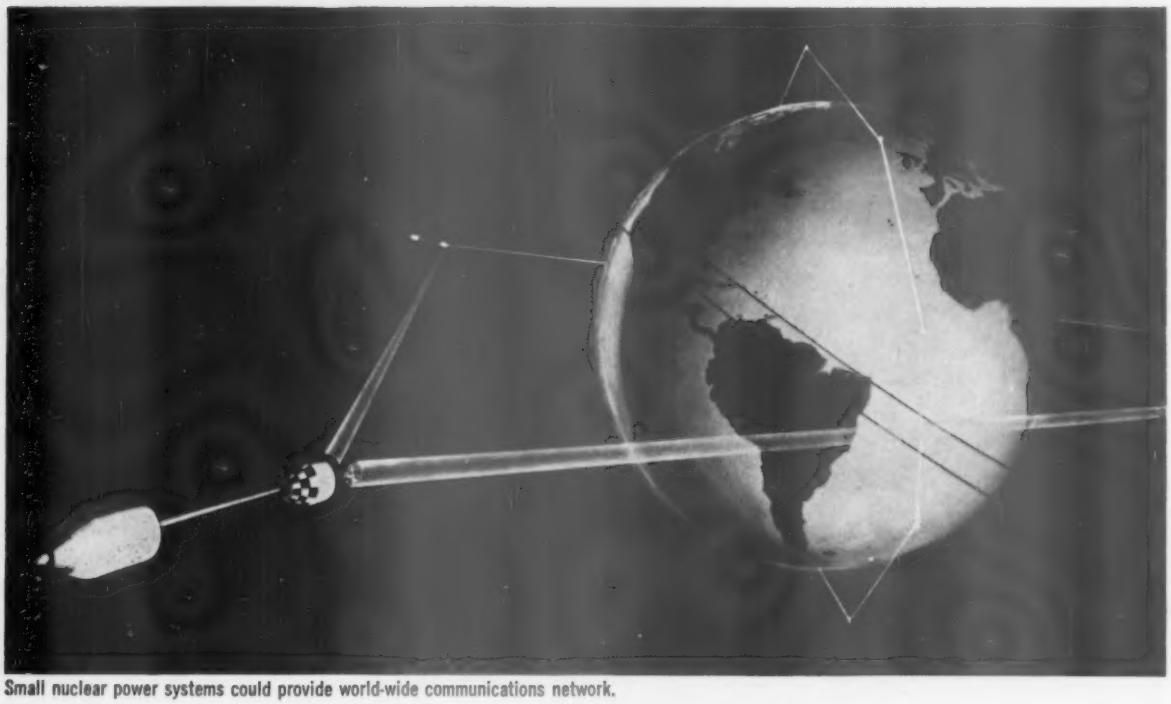

Small nuclear power systems could provide world-wide communications network.

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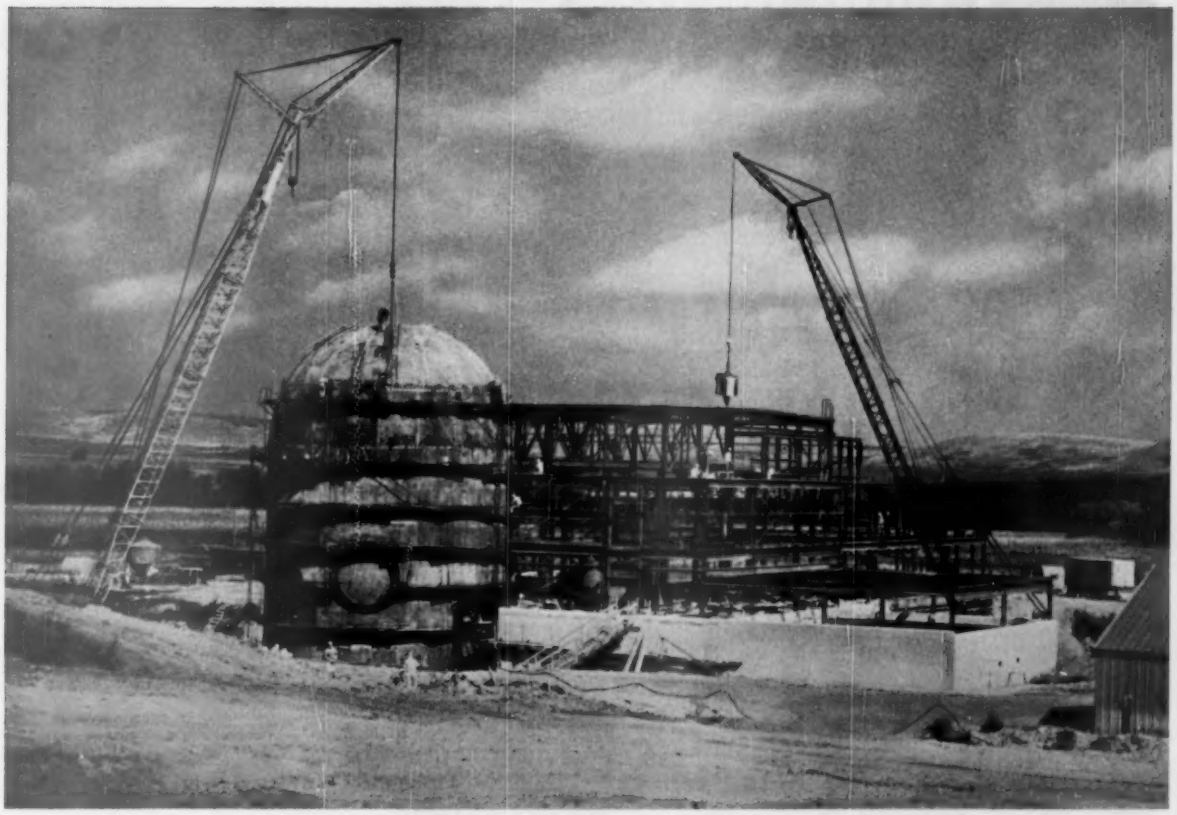

A status report:

nuclear superheat...on schedule

"Pathfinder" is the country's first nuclear superheat power station under construction. It is being built by Allis-Chalmers for Northern States Power Company. Cooperating in research and development are nine other midwest utilities* and the Atomic Energy Commission.

The above photo shows the containment, turbine, water treatment and administration buildings. Construction is on schedule.

The integral nuclear superheater will provide steam at 600 psig, 825 F. Other important design characteristics include a high power density — 46 kw per liter — and controlled recirculation — 60,000 gpm.

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For more information about Allis-Chalmers facilities and capabilities in the nuclear power field, talk to your nearest A-C representative, or write for *Bulletin 43B9541,* **Allis-Chalmers,** Atomic Energy Division, Milwaukee 1, Wisconsin. A-1382

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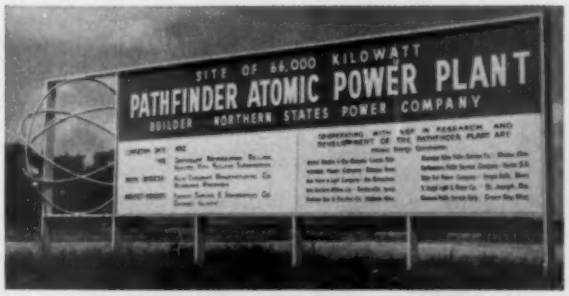

Site of "Pathfinder" plant at Sioux Falls, South Dakota.

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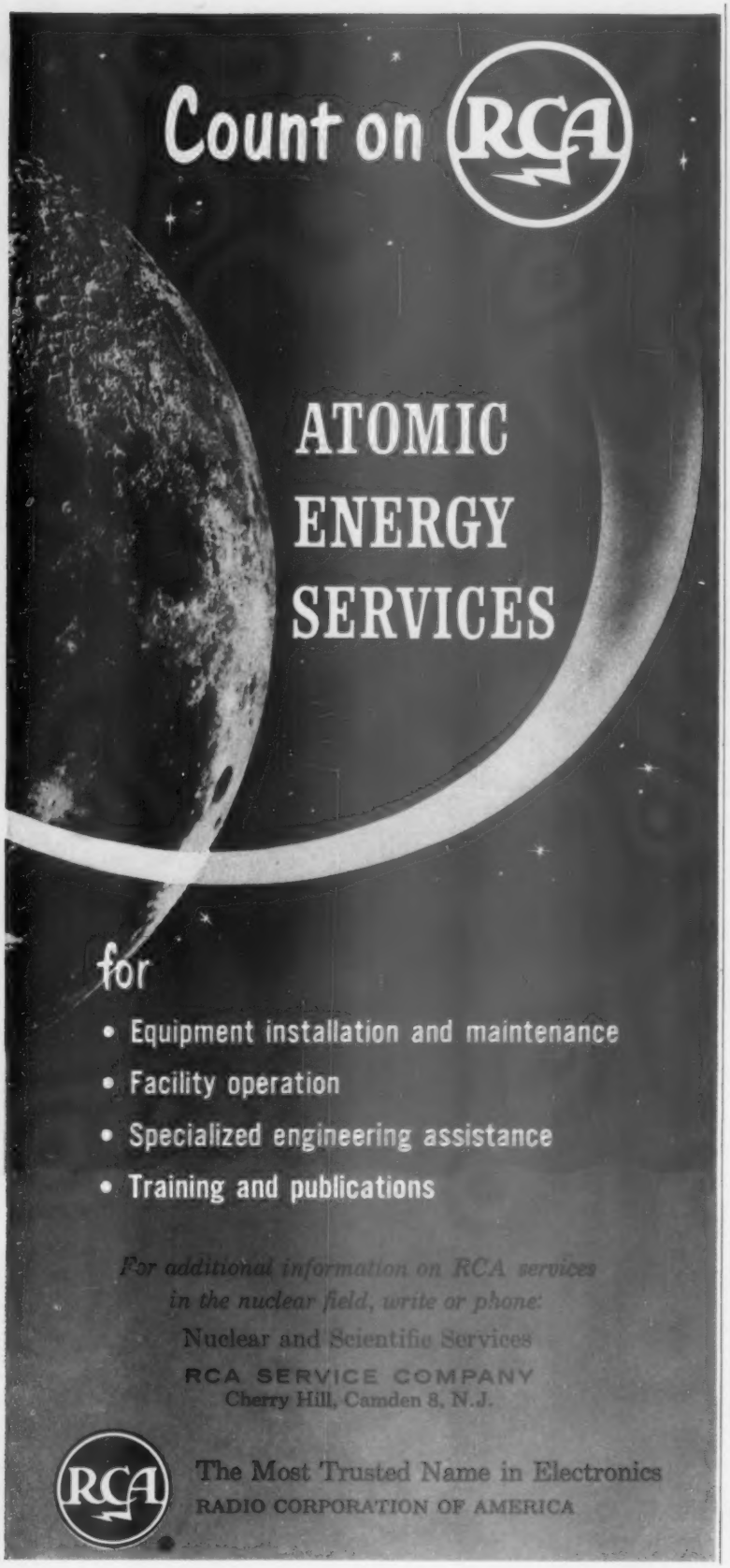
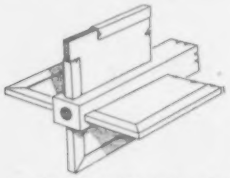


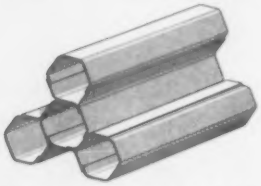
an effective material for neutron shielding

Boral is a uniform dispersion of boron carbide crystals in aluminum. Its high boron carbide content (up to 50%) enables it to absorb thermal neutrons without the production of hard gamma rays.

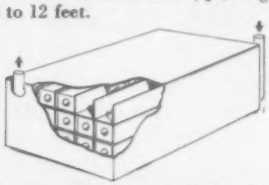
Boral Plate can be worked to meet the requirements of a wide range of shielding applications. It can be drilled, tapped, punched, sawed, sheared, formed, and welded. The accompanying sketches show typical designs and assembly methods.



Shut-down Control Rod for Reactors
Assembly of this unit is made by arc welding. All edges of Boral Plate are clad. The center bar is tapped to receive the threaded rod.



Storage Cells for Fresh Fuel
Cells are usually used in assemblies of several fuel units, encased in aluminum or stainless steel cylinders. The Boral shapes should have corner radii of ¾"; length can be up to 12 feet.



Water-cooled Boral-lined Case for Spent Fuel Elements
This Boral-lined aluminum case with egg-crate type separators for the transportation and storage of spent fuel units, is assembled from Boral Plate by arc welding.

Typical and Potential Applications
Reactor shields, neutron curtains, shutters for thermal curtains, safety rods, storage and shipping containers for fissionable material, fabricated boxes for radiation-sensitive devices, protective shields for easily activated components.

Brooks & Perkins, the first commercial producer of Boral, invites you to send for technical data and literature. 60-T-11

BROOKS & PERKINS, INC.
1926 W. FORT STREET • DETROIT 16, MICHIGAN
Offices in Washington and New York

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One of a series of discussions on topics of particular interest to those employing radioisotopes and tracer techniques.

Let's Talk About AUTOMATIC SAMPLE COUNTING . . .

by Wendell C. Peacock, Vice President and Technical Director, Tracerlab, Inc.

There is nothing complicated about selecting automatic sample counting equipment . . . It simply boils down to a careful analysis of your needs. When you reach the point where automatic equipment is desirable, consider all the equipment commercially available and obtain the following information:

1. Sample Capacity
2. Detection Method
3. Type of Data Printout Provided
4. Simplicity and Versatility
5. Efficiency and Reproducibility
6. Cost
7. The Experience and Reputation of the Manufacturer

Since TRACERLAB introduced the first automatic sample counter and has made most of the significant advances in this important area, it seems logical to check first with TRACERLAB for equipment to meet your requirements. For example:

1. *Sample Capacity?* Standard TRACERLAB counters will accommodate up to 50 samples on planchets, vials or test tubes. Custom-built units accommodating several hundred samples have been supplied.

2. *Detection Method?* For alpha, beta or gamma emitters in either solid or liquid form, TRACERLAB equipment employing your choice of scintillation, geiger and proportional (conventional or flow type, thin window or windowless) detectors, is available to count samples automatically.

3. *Type of Printout?* With TRACERLAB equipment it's your choice. Most users prefer the convenience of the complete sample data (sample number, count, time and count rate) provided by TRACERLAB's Auto/Computer and Auto/Printer. Records are always *complete* and an overriding preset-time, preset-count feature permits frequent insertion of background samples without excessive time delays. However, if the economy of a printing timer is desired, this is also available. And remember, whether you wish to use commercial tape punch or card punch machines, TRACERLAB systems will function smoothly and effectively with almost any system you choose.

4. *Simplicity and Versatility?* All TRACERLAB automatic sample counting systems employ the same scalers and data printers. Therefore, when you need a second automatic sample changer, a stepping chromatogram, a stepping spectrometer or manual equipment, there's no need to purchase duplicate instrumentation. What's more, you won't find any huge complex consoles with *"intergalactal"* control panels in TRACERLAB systems. They have a minimum of controls, require very little bench space, and can be serviced and maintained with ease.

5. *Efficiency and Reproducibility?* Vital points in any technical comparison. The need for high efficiency is obvious but without reproducibility an automatic sample counting system is worthless. Ask about efficiency and reproducibility and remember that TRACERLAB makes every effort to optimize both features.

6. *Cost?* Don't be misled when you price an automatic system. Be sure to include *all* of the components and accessories required for a complete functioning unit; you'll be surprised at the relatively low cost of a TRACERLAB system. The cost will be even less if you already own a Tracermatic scaler because all scalers in TRACERLAB's new line have built-in automatic capabilities.

7. *Experience and Reputation of the Manufacturer?* Remember these facts and decide for yourself. TRACERLAB not only made the first commercial automatic sample counting system, but is today the *only* company which designs and manufactures not just one or two, but a complete line of automatic sample counting systems.

In short, TRACERLAB can provide automatic sample changers and systems to meet your every requirement and, most important of all, you get everything you need from a single source.

For complete information on TRACERLAB's automatic sample changers and the complete line of TRACERLAB nuclear equipment, write for your copy of the new General Catalog F.

Tracerlab *first in radiation measurement*

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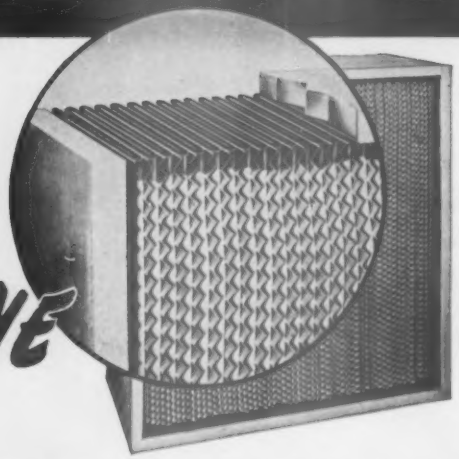
Prevent Air and Product Contamination with Cambridge ABSOLUTE® Filters

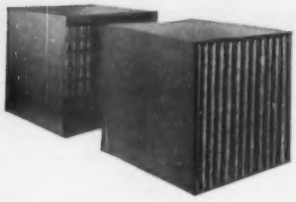


The POSITIVE Filter

Guaranteed 99.97% Efficient on 0.3 Micron Particles

The Cambridge ABSOLUTE filter has long been the standard of quality for the removal of radioactive particles from air. It is available in a wide range of models which are resistant, as required, to temperature, humidity, fire and corrosion. All filters are individually tested and the penetration of 0.3 micron D.O.P. aerosols is guaranteed not to exceed 0.03%.

Write for Bulletin 106C



Cambridge AEROSOLVE® Filters

35% to 95% Efficient on Atmospheric Dust

Available in three efficiencies – 35%, 85% and 95%, NBS test method with atmospheric dust – and for face velocities of 450 f.p.m. and 250 f.p.m. Permanent cadmium-plated frames with easily installed, interchangeable cartridges. Write for Bulletin 132. *Frame to hold combination AEROSOLVE-ABSOLUTE filter described in Product Data Sheet 136.*

Self-Contained ABSOLUTE Filters

Easily installed in exhaust systems, they eliminate filter-sealing problems and prevent loss of accumulated material during filter change. Available for wide range of operating conditions. Write for Product Data Sheet 108.

Radioactive Hood Prefilters

Cambridge Hood Prefilters capture the major portion of any gross contamination – extend the life of the ABSOLUTE filters in the exhaust system – make clean-up easier and less costly. Product Data Sheet 160. *Special Perchloric Acid Hood Prefilters described in Product Data Sheet 165.*

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Cambridge ABSOLUTE Filters can be made in a wide range of special sizes and shapes. Write for information regarding your specific needs.

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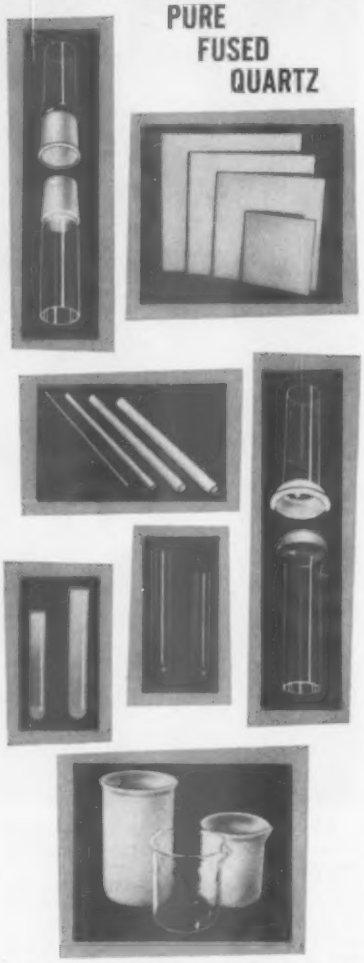

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AVAILABILITY – **block material** for lenses, prisms, etc; **rod, fiber, wool; hollow ware** as tubing, crucibles, and special apparatus.

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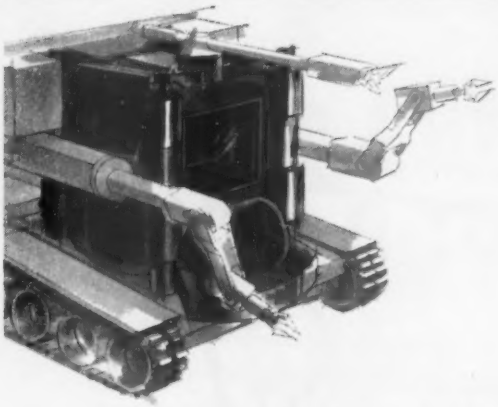
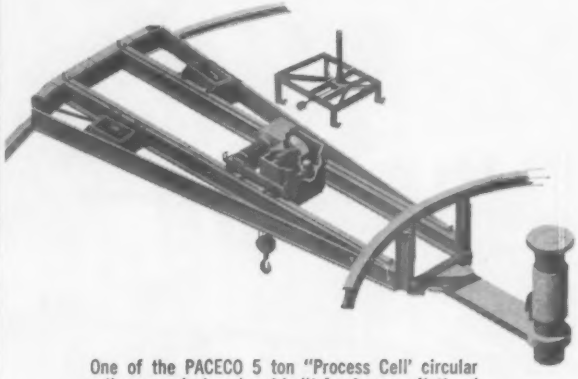
CONSULT PACECO at the planning stage

OUTSTANDING SOURCE FOR NUCLEAR EQUIPMENT



PACECO built the shielded cab for this unusual vehicle which will be used in extremely high flux density radiation areas. This 85,000 lb. shielded cab has tolerances of ± .005 of an inch—a usual rather than unusual specification for PACECO which is unique in ability to fabricate heavy equipment to close tolerances.



One of the PACECO 5 ton "Process Cell' circular rail cranes designed and built for Argonne National Laboratory. It operates in "Process Cell" entirely by remote control—vital crane machinery is protected by lead shielding and can be removed remotely with special lifting beam. PACECO builds nuclear cranes to highest degree of reliability to increase safety and critical operating efficiency.

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5 REACTOR VESSELS DELIVERED—4 NOW BUILDING

PACECO can assist *you* in selecting the most efficient and economical equipment design for your project. Rare experience has been developed while equipping nuclear projects of the AEC and private industry during the past 12 years. From your basic specifications, PACECO can develop the final product most suited for your requirements. 37 years experience in heavy equipment design and fabrication enables PACECO to serve you better with lower first costs and more efficiency. Consult PACECO at the planning stage.

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AGITATORS
AUTOCLAVES
CHARGING MACHINES
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CRANES—bridge, polar or gantry.
EVAPORATORS
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PACECO is an INSMETAL licensee. INSMETALS are Lead-Surfaced Metals with few if any fabricating limits. They combine the excellent gamma shielding attributes and fine corrosion values of Lead with well-known properties of Aluminum and its Alloys in BAUXILUM; Copper and its Alloys in CUPRALUM; Carbon Steel in FERROLUM; Stainless Steel or other Nickel Alloys in NICROLUM; and Stainless Clad Carbon Steel in FERRO-NICROLUM.—Send for brochure.

YES—this is the same PACECO that builds barges, tugboats, dredges, hydroelectric gates and hoists, port bulk and container cranes, shipboard cranes, railroad cranes, "Paceco TransTainer," "Paceco AutoPacker," and heavy custom equipment for general industry.

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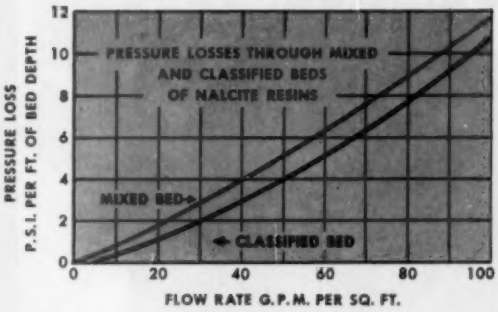
How to Make Your Demineralizers GROW: Replace Worn-out Resins with New Nalcite® Ion Exchangers

Added Capacity Teams With Higher Flow Rates, Less Pressure Drop, To Increase Demineralized Water Output at Low Cost



Demineralizers are like storage space—you can always use more capacity . . . And new Nalcite resins can help you get that added capacity from your present demineralizer installation.

"Better than new" is a practical prospect with Nalcite resins. They not only outperform older Nalcite ion exchange materials (which were as good as could be made at the time), but they also have longer useful life.

New Nalcite Resins Stay New

Nalcite HCR-W* cation and Nalcite SBR-P* anion exchangers were designed to eliminate the enemies of ion exchanger performance: strong resistance to bead breakage and loss, and organic fouling, keeps capacities up, resin addition down.

Nalcite SBR-P Anion Exchange resin has taken a leading place in the water demineralization field since its introduction in 1957. It is a strongly-basic anion exchanger with both high porosity and high capacity. While it is especially suited for waters containing organic matter and color, its high capacity and efficiency are good reasons to consider it as replacement for worn out type 2 as well as type 1 resins. It can be used effectively on all types of water supplies. Brine washing to remove organic matter and color has been eliminated in several demineralizers now using Nalcite SBR-P in place of older type resins. Excellent particle size characteristics add to the efficiency of Nalcite SBR-P. Optimum bead size facilitates foreign matter removal, minimizes expansion during backwash, and permits use of less freeboard in many installations. High flow rate mixed bed demineralization and applications which subject resin to considerable physical handling are other areas where Nalcite SBR-P has proved an outstanding performer.

Nalcite HCR-W* Cation Exchange resin has the high degree of sphericity and very narrow range of particle size distribution that assure low operating pressure losses in both mixed and classified bed demineralizers. Virtually stress-free HCR-W spheres reduce breakage due to regeneration, high flow rates or other causes—including drying. Nalcite HCR-W beads also resist channeling and packing. Nalcite HCR-W has excellent physical and chemical stability under most severe demineralizer operating conditions, plus high exchange capacity to make your demineralizers grow in efficiency for you.

Replace All or Part of Resin?

Replacement of entire beds with Nalcite SBR-P and HCR-W is the way to boost demineralizer performance and capacities to top efficiency. Partial bed replacement may be made with Nalcite HCR-W, regardless of the type of cation resin used, but due to possible density differences which may adversely affect anion exchanger performance, addition of SBR-P to other anion exchangers, exception in mixed beds, should be made only after study. To be sure of your replacement resin benefits, consult your demineralizer equipment manufacturer, who can engineer these new improved ion exchangers into your demineralizer. Write us if you have any questions.

Data on Ion Exchangers

Progress in the practical science of using ion exchangers efficiently is discussed in Nalco Reprint 84: "Developments in the Understanding of Ion Exchange." Practical ion exchanger applications, improved laboratory methods, new ion exchange materials, and more efficient operating technique are discussed.

New Nalco Bulletins: (HCR-W) Z12 and (SBR-P) Z13 provide extensive technical information on these efficient Nalcite Ion Exchangers. Your request for any or all bulletins will be honored promptly.

*Registered trademarks of Nalco Chemical Company.

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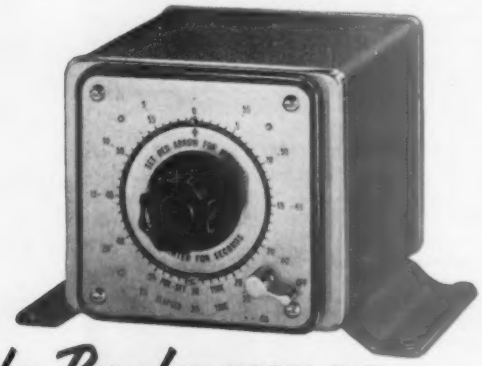
the New MODEL 111 DUAL PURPOSE SYNCHRO-MOTOR TIMER

Times to either set interval (.01 to 90 minutes) or set count (.01 to 100 minutes). Accuracy is plus or minus 0.001 minute.
Easily and accurately set and read—minutes and decimals.
Start, stop and reset electrically controlled. Automatic reset.
Elapsed time continuously indicated.



the Popular MODEL 2-D SYNCHRO-MOTOR TIMER

Times and integrates to pre-set time 1 second to 60 minutes. Accuracy is plus or minus 0.1 second.
Easily and accurately set and read—continuously indicates elapsed time.
Turns on manually—off electrically. Manually reset.

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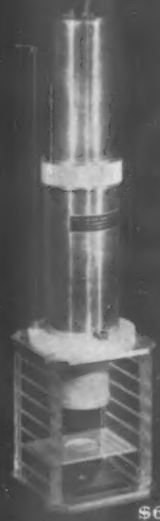
(Shown with 2 x 2 crystal and shelf assembly)



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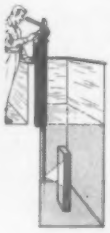
Lenox leads the way in the development of borescopes and periscopes for the inspection of reactor components and other radioactive parts. Both instruments are supplied with offset optics and integral shielding. Of watertight construction and corrosion-resistant materials, they are manufactured in lengths and diameters to fit the application. Adapters for T.V. and photography available.



◀ NUCLEAR PERISCOPES
For the viewing of remote handling operations such as hot cells, canals, and other hazardous processes. Also available—metallurgical extended microscopes.

REACTOR BORESCOPES ▶
Allow for close-up inspection of reactor's fuel plates, tubes, etc. Interchangeable, illuminated viewing heads and eyepieces permit combination borescope/periscope usage.

When inquiring, please advise length and bore, any bore irregularities, and whether bore is accessible at one or both ends. We will be glad to submit recommendations, specifications and prices.

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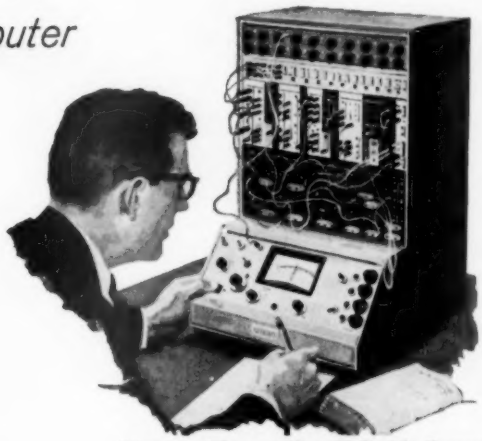
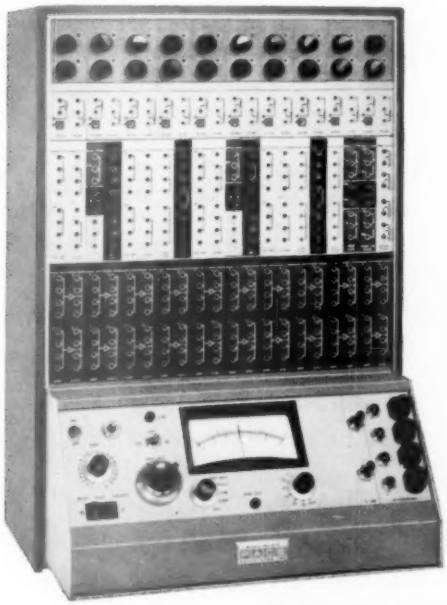
EAI *Transistorized Analog Computer*

A WIDE RANGE OF SOLUTIONS AT DESIGN ENGINEERS' FINGERTIPS...



PACE® TR-10, the first all transistorized desktop analog computer, puts proven high-speed computation right where it's needed – on the desks of busy engineers. With this easy-to-use simulator, you can quickly solve many problems without waiting for scheduled access to large-computing systems. Though compact in size, the TR-10 is a full-fledged analog computer capable of providing solutions to a wide range of design problems. Up to 20 amplifiers, plus linear and non-linear computing components are contained in one compact cabinet with no external racks. The TR-10 permits rapid evaluation of different design approaches. It demonstrates the performance of a conceptual or drawing-board design prior to construction. Thus it saves time and money normally required for multiple test models with cut-and-try engineering.



Here's How The TR-10 Saves Engineering Time

The TR-10 is especially useful in solving problems in such diverse areas as servo-system design, heat flow, chemical reaction analyses, suspension systems studies and many other problems involving dynamic conditions. Fast answers to problems posed by new design ideas immediately determine feasibility of projects. With the TR-10, engineers can explore new ideas as they occur – concentrate valuable time on the most promising area of study.

(Applications notes are available describing typical problem solutions.)

How Do You Use The TR-10?

First—Represent in equation form the physical system to be studied.

Second—Select through a simple computer diagram the computing components required to perform the calculation (programming).

Third—Interconnect these components on the computer (problem patching) and set problem parameters with adjustable controls.

Fourth—Run the problem with results presented graphically on an accessory recorder or oscilloscope.

You now have an electronic analog *model* of the physical system under study. You can manipulate design parameters quickly, running comparative solutions without becoming involved in repeated calculations. With the TR-10 you can rapidly develop truly optimum designs.

For complete details of TR-10, write for free copy of Bulletin AC 934–GA.

◀ **PACE TR-10** Analog Computer, including components for addition, subtraction, multiplication, division, integration and generation of powers, roots, logs, antilogs and arbitrary functions.

EAI ELECTRONIC ASSOCIATES, INC. *Long Branch, New Jersey*

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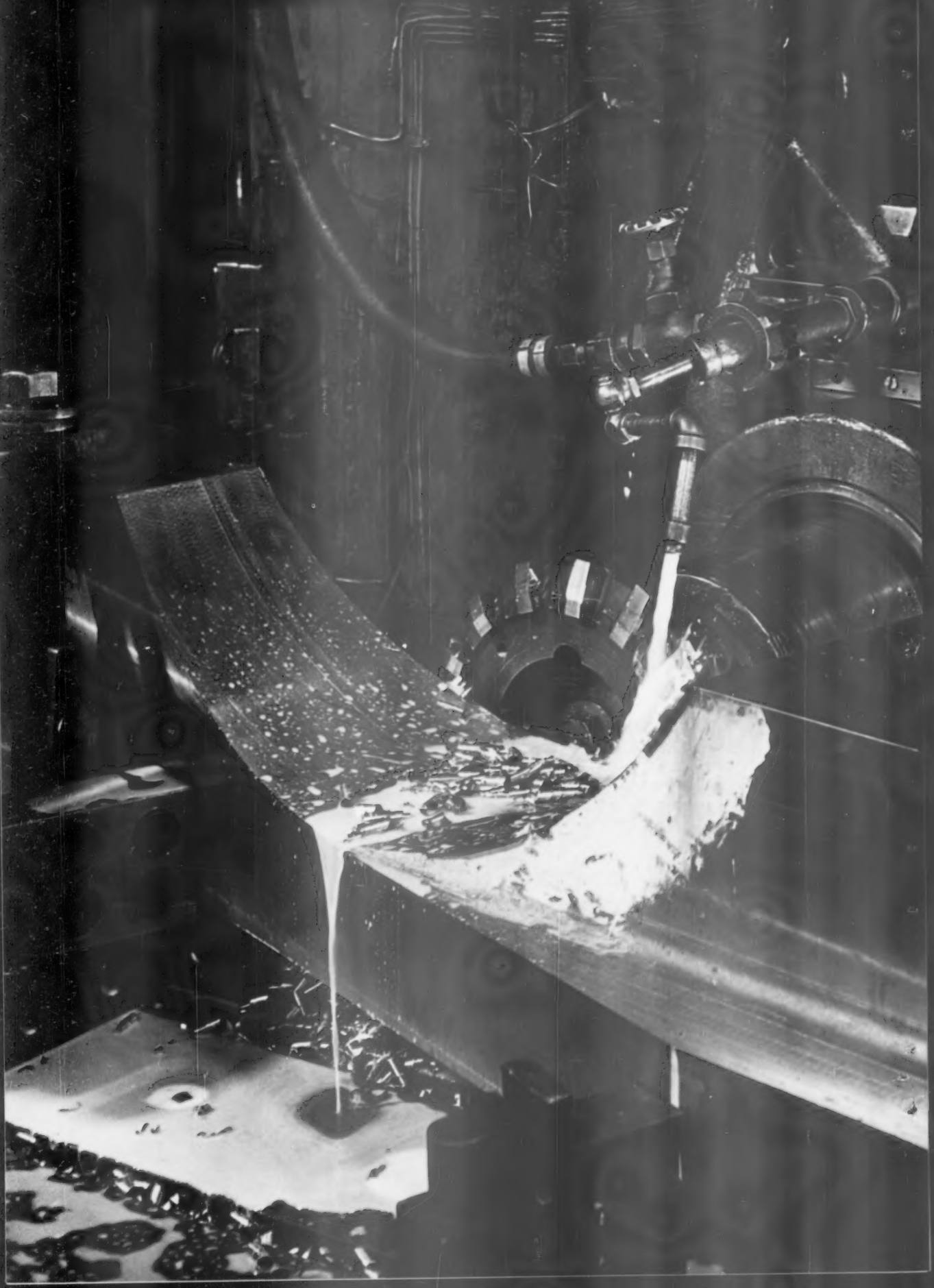

This forging may cradle the greatest source of energy on earth

One of the great scientific investigations of all time is now in progress, as we strive for a controlled *fusion* reaction. If we succeed, man will be able to generate a limitless amount of energy using deuterium fuel, a hydrogen isotope, available in inexhaustible quantities from the sea.

Princeton University carries on the study with their Stellarator-type experimental devices. The Model-C Stellarator Facility now nearing completion will cost $35 million and consists of an 8-inch-diameter, 40-foot-long, racetrack-shaped tube to control the reaction. Required ignition temperature is in the order of 100 *million* degrees. Any solid material will evaporate at that temperature, so the hot ionized gas will be confined in a magnetic field of *50,000* gauss in the Model-C Stellarator. The equipment is supported by USS Quality Forgings of Type 305 Stainless Steel.

Altogether, U. S. Steel supplied 17 of these stainless steel forgings, fully annealed, to Allis-Chalmers Manufacturing Company, major contractor for the new Model-C Stellarator.

The steel for the forgings was forged, heat-treated and machined at U. S. Steel's Homestead Plant. Each forging measures 60¼″ long, 21¼″ wide at the base, 15⅝″ high and weighs about 2,450 pounds rough machined.

United States Steel makes many forgings for the nuclear industry. Here, a team of *experts* supervises and *controls every step* of forging production. This same team can handle your forging requirements. If you would like additional information about USS Quality Forgings, write to United States Steel, 525 William Penn Place, Pittsburgh 30, Pennsylvania.

USS is a registered trademark

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USS

KANIGEN®

The proved nickel alloy chemical plating—available only from General American and its licensees

KANIGEN is a chemically and metallurgically unique process for applying a hard, corrosion and abrasion resistant surface to most metals. KANIGEN is being used successfully for coating almost everything of any size—from the inside of a tank car to a tiny surgical needle—providing extreme uniformity of coating thickness even on complex shapes. Rack, jig or barrel plating may be used with KANIGEN.

Since KANIGEN is a nickel alloy, it has many qualities which make it desirable for nuclear applications. Valves, pumps, pressure vessels, tube bundles and headers are typical of the pieces that have been successfully plated with KANIGEN.

KANIGEN is available from General American at East Chicago, Indiana; Sharon, Pennsylvania, and Compton, California, and from licensees in many cities. For further information, call or write.

KANIGEN is a trademark which identifies chemical nickel coating by General American Transportation Corporation and its licensees, the product resulting therefrom and compositions produced by them for use in chemical nickel coating.

PHYSICAL PROPERTIES

Specific gravity 7.9
Melting point ..... 1635 °F
Electrical resistivity
approximately 60 micro-ohms/cm/cm^2
Coefficient of expansion
13×10^{-6} cm/cm per °C or
7.22×10^{-6} in/in per °F
Thermal conductivity
approximately 0.0105 to
0.0135 cal/cm sec °C (calculated)
Hardness
as plated—49 Rockwell C
heat treatable to 70 Rockwell C

World's largest production facilities for chemical nickel alloy plating on

Iron
Copper
Aluminum
Titanium
Beryllium
and their alloys

Pilot plant facilities are available for nickel alloy chemical plating on magnesium, uranium and non-metallics including thermosetting plastics, glass, ceramics.

Kanigen Division

GENERAL AMERICAN TRANSPORTATION CORPORATION

135 South La Salle Street • Chicago 3, Illinois

KANIGEN GENERAL AMERICAN TRADE MARK

→ TO LOCATE NEAREST SALES OFFICES, SEE GREEN SECTION.

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DI SON TEGRATOR®
ULTRASONIC CLEANER

The fastest, highest quality method of soil disintegration ever devised!

LOWEST PRICED ULTRASONIC CLEANERS SOLD ANYWHERE!

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40	½	5¾"L x 5¼"W x 4"D	$99.95	$187.50-350
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Only Ultrasonic Industries offers:

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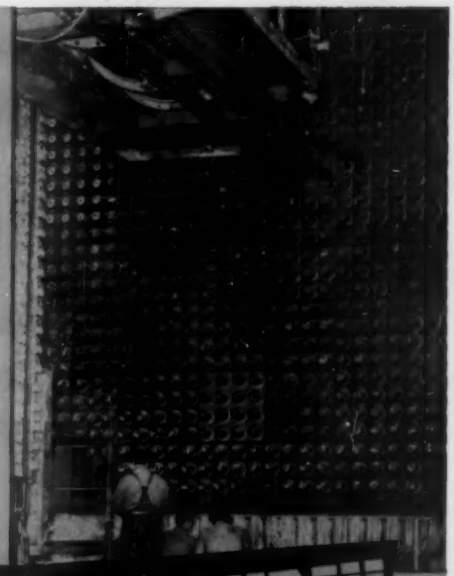
I understand that my money will be refunded if not completely satisfied after 5 day trial.

☐ check enclosed (freight prepaid)
☐ bill me (rated firms only) ☐ C.O.D.

SYSTEM NO.	40	80	320	520	1040	3000
TURQUOISE						
LT. GRAY						
PALE GREEN						
IVORY						
DESERT SAND						
WHEAT YEL.						
CORAL PINK						

ultrasonic industries INC
141 ALBERTSON AVENUE • ALBERTSON, L. I., N. Y.
Pioneers in Ultrasonics
In Canada 1512 Eglinton Ave. West, Toronto 10, Ont., RU 7-8831

A NEW MATERIAL for NEUTRON SHIELDING



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Permali is a laminated plastic with exceptional mechanical properties.

Permali has a comparatively high hydrogen content and thus a low relaxation length against fission neutrons.

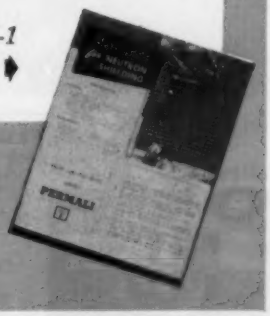
Permali can be operated at relatively high temperatures without deformation or loss of shielding properties.

Permali can be loaded with Boron to attenuate thermal neutrons . . . it can be made fire resistant and self-extinguishing through chemical modification during manufacture.

Permali is available in the form of sheets, rods, rings, threaded rods, nuts and bolts, or fabricated to engineering tolerances in almost any shape or size.

Permali design engineers are available for consultation on your particular shielding problem.

Send for Bulletin NU-1 today!



PERMALI, Inc.
P. O. Box 718, Mt. Pleasant, Pa.
Telephone: Kimball 7-2353
TWX: Mt. Pleasant, Pa. 161

Also available through associated companies in Canada, England, France, and Australia.

VISIT BOOTH 103—1960 Western Atomic Industry Fair—San Francisco

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Rare Earths

are doing these jobs in ceramics now

Producing intense and unusually "clean" colors such as yellow, blue and pink for porcelain enamel glazes.

Producing microwave ferrite components for use in isolators, circulators, switches, and phase shifters based on Faraday rotation in circular waveguides.

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682 North Bankson Street, Saint Louis, Michigan

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ballistics with statistics

Behind the launching pad lie years of statistics.

And years of statistical specialization have given Wall tubing reliability in meeting the critical test. Exhaustive testing assures that Wall Tube's stainless steel, nickel and nickel alloy tubing will be of the highest quality.

Before you procure small diameter tubing of any grade, let a Technical Sales Representative demonstrate Wall Tube's know-how—that developed from demanding application.

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Stainless Steel—Welded and Cold Drawn—1 1/8" OD to 3/32" OD, .083 to .008 walls. Seamless—5/8" OD to 3/32" OD, .049" to .008" walls. Nickel and nickel alloy—seamless, 5/8" OD to 3/32" OD, .049" to .008" walls.

WALL TUBE AND METAL PRODUCTS CO.

NEWPORT, TENN.

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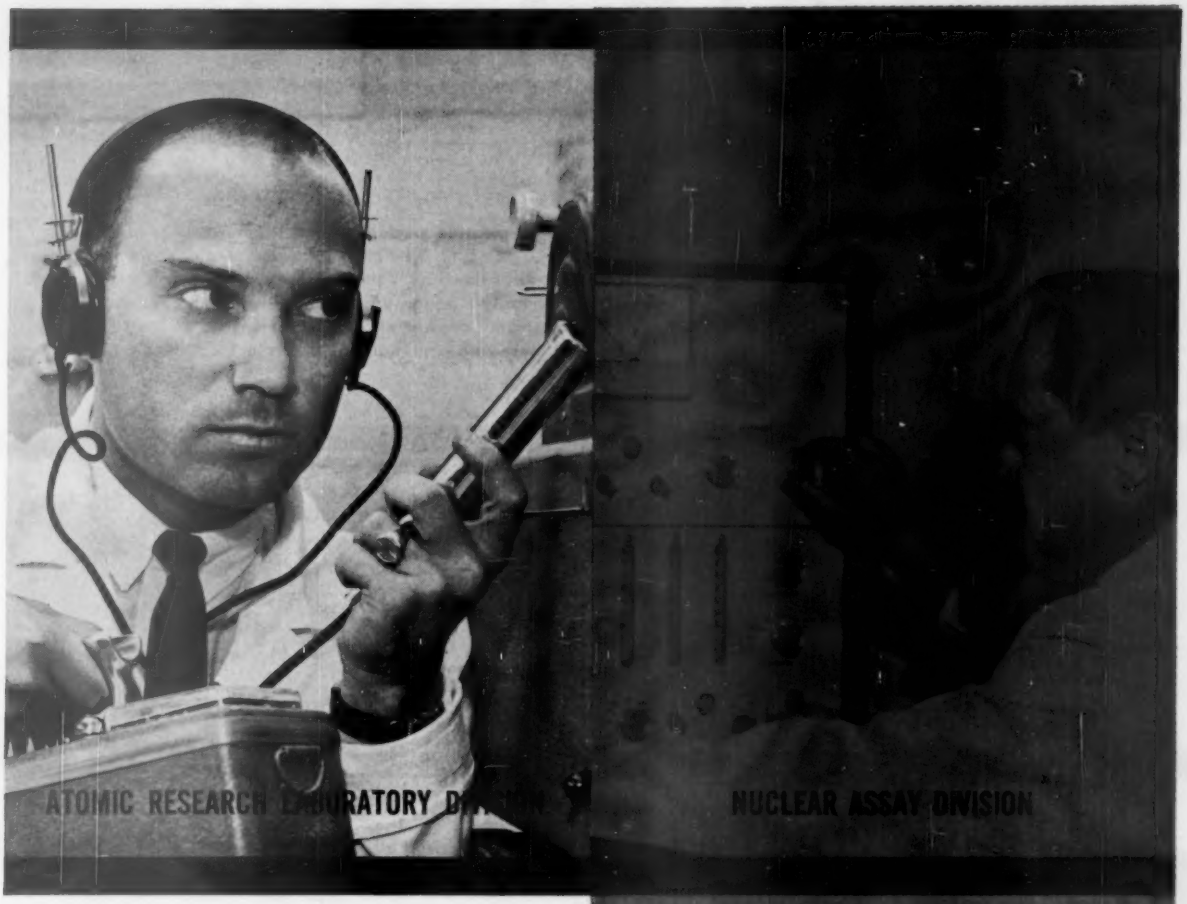
WHEN TO CALL IN THIS RADIATION "DETECTIVE AGENCY"



1. TO REVIEW RADIATION SAFETY PROGRAMS.
2. TO DETECT AND MEASURE CONTAMINATION.
3. TO DIRECT DECONTAMINATION OPERATIONS.
4. TO CONDUCT INDUSTRIAL TRACER STUDIES.
5. TO CUSTOM PROCESS ISOTOPES.

DETERMINE RADIATION LEVELS IN PERSONNEL THROUGH BIO-ASSAY

Accurate low-level assays of total alpha, total beta-gamma, Uranium, Plutonium, Radium, Sr-90, C-14 and many others in blood, urine, sputum, breath, nose wipes, feces, as well as air, water supply, waste, filter media and soil.
Prompt, accurate service.

Write for further information and fee schedule

ATOMIC CORPORATION OF AMERICA

14725 Arminta · Panorama City, California, U.S.A.
Raymond Finkle, Ph.D., Director
A subsidiary of BIOCHEMICAL PROCEDURES, INC.

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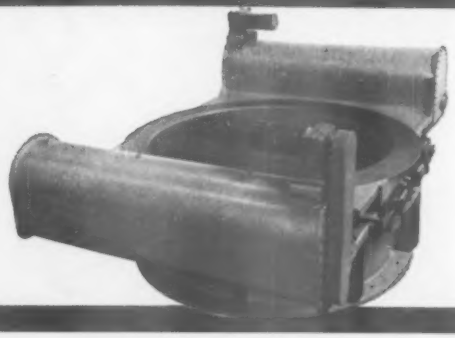
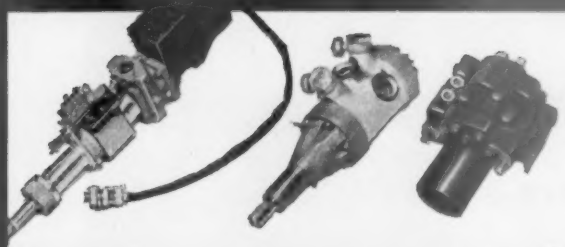
EX-CELL-O ATOMICS
. . . applied precision in many fields

The most accurate production machine tools ever built exemplify Ex-Cell-O's ability to design and produce intricate mechanisms. This Ex-Cell-O Numera-Trol 2 axis electronically monitored contouring machine, capable of continuous production within a tolerance of 1 x 10^{-4}", is compatible with high radiation levels for possible hot cell use.

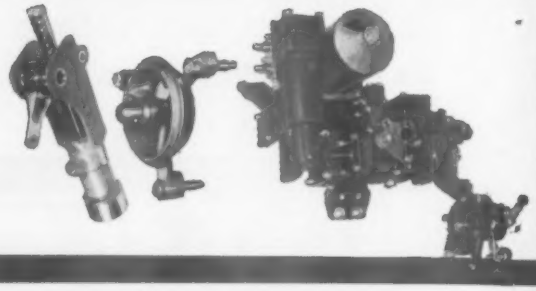
This ninety-six inch diameter shutter type valve will seal off the primary coolant loop from the containment building atmosphere when components of one of the nation's fast breeder reactors are remotely removed for maintenance. Space available precludes showing the valve's companion pieces, all produced by Ex-Cell-O Atomics.





Control rod drives, produced by Ex-Cell-O Atomics, are a natural extension of Ex-Cell-O's vast experience in the design and production of literally thousands of actuators of all types—linear and rotary, air, gas, hydraulic and electric. Complete facilities are available for designing, fabricating and testing control rod drives and their associated components.

Precision parts and assemblies, whether for reactors and their related equipment, or for research projects, processing systems, etc., are an every day product of Ex-Cell-O Atomics. For many years Ex-Cell-O has been a major producer of precision parts, from microscopic sizes to multi-ton machined weldments, as well as forgings and castings from its own foundries.



Ex-Cell-O Atomics, and the facilities, skills and experience of the parent 34 plant intercontinental industrial complex, are available to meet your requirements over a broad spectrum of products.

Contact Ex-Cell-O Atomics for particulars explaining in detail how you may take advantage of this reservoir of capability to meet your present and future needs.

Directory of Ex-Cell-O Products, Services, Facilities

Below are listed the principal products and services of Ex-Cell-O Corporation and its wholly owned subsidiaries that are applicable to the atomic industry. If your requirements involve precision metal-working in its many forms, you can depend on Ex-Cell-O as a reliable source. For over forty years, the Ex-Cell-O name and the well known "XLO" symbol have been synonyms for precision the world over; we are certain you will find the services and products you are looking for at Ex-Cell-O.

XLO

EX-CELL-O CORPORATION

- Actuators—linear and rotary
- Servomechanisms
- Control rod drives
- Remote handling equipment, manipulators
- Precision forming of exotic metals, ceramics, lavas
- Computer programmed, tape controlled machine tools
- Remote controlled machine tools for hot cell use
- Electrolytic and electrospark precision metal removal equipment
- Custom and standard machine tools
- Precision machined parts, assemblies—tolerances to 1 x 10^{-4}"
- Liquid metering and control systems, components
- Precision ferrous and non-ferrous castings
- Research and development programs
- Manufacturing and engineering facilities: 1,490,000 square feet

BRYANT

BRYANT CHUCKING GRINDER COMPANY

- High speed digital recorders—custom and standard
- Computer accessories
- Precision internal grinding machine tools and accessories
- High speed, air bearing electric rotational equipment
- Manufacturing and engineering facilities: 140,000 square feet

Cadillac

CADILLAC GAGE COMPANY

- Servovalves
- Servoactuators
- Servomechanisms—systems and sub-systems
- Supersensitive sensing devices and systems
- Superfine parts and assemblies—tolerances to 1 x 10^{-6}"
- Superaccurate gaging and measuring equipment—tolerances to 1 x 10^{-6}"
- Superfine parts and assemblies in lavas, ceramics and cermets—tolerances to 1 x 10^{-6}"
- Manufacturing and engineering facilities: 86,000 square feet

ABC

ACCURATE BUSHING COMPANY

- Close tolerance needle bearings
- Close tolerance hardened steel bushings
- Close tolerance miniature parts and assemblies—tolerances to 1 x 10^{-4}"
- Iso-elastic bearings
- Manufacturing and engineering facilities: 55,000 square feet

MICHIGAN TOOL CO.

MICHIGAN TOOL COMPANY

- Special and standard gear generation and fabrication
- Gear production equipment—workpieces more than 200"D.
- Precision cold working "chipless" machining equipment, for splines, threads, worms, etc.
- Ultraprecision indexing equipment—accuracy capability = 7 x 10^{-6}/" arc in 12"D.
- Massive machined detail components and assemblies
- Manufacturing and engineering facilities: 380,000 square feet

CTW

CONTINENTAL TOOL WORKS DIVISION

- Precision metal removal equipment
- Standard and special cutting tools
- Carbide and high speed steel cutting tools
- Milling cutters, broaches, boring and turning tools
- Manufacturing and engineering facilities: 90,000 square feet

60-78

. . . enables us to take a penetrating look into the fundamental nature of matter.

One of our most challenging research programs is an investigation of the microstructure of solids. By studying defects in minute crystals, we are obtaining greater understanding of these basic building blocks of nature. Eventually, we hope to learn how to modify or eliminate these defects and thus better control the physical and mechanical properties of materials.

If you are interested in corporate-sponsored studies into the fundamental nature of matter, we welcome your inquiry. We offer you a research environment where the scientist receives *real backing:* superior research tools; the use of the nation's largest computational facility; assistance from other scientists with complementary skills.

Please send resumé to Mr. W. R. Walsh, at the Research Laboratories.

OPPORTUNITIES for scientists in the physics of solids, liquids, gases, and plasmas. Current studies range from the fundamental properties of matter to the application of scientific knowledge to promising new products.

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UAC RESEARCH

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VERSATILITY

New from B/A — **The MODEL 250 Amplifier-Analyzer**

. . . so convenient and versatile it is applicable to any scintillation counting technique. Here are a few of the many unique features of this totally new instrument: in addition to standard window operation, upper and lower base line levels are independently variable over a 100-volt range — allows selection of a wide range of pulse amplitudes and cuts out very high and very low level noise; standard instrument has all controls necessary for any scintillation counting technique including provision for addition of base line scan drive (drive available in kit form); circuitry — based on a combination of well proven techniques — is completely hand wired for maximum reliability and ease of service.

Full details on the pace-setting Model 250 are now available from your Baird-Atomic sales and service representative. Offices in principal cities — write, wire or phone today.

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BAIRD-ATOMIC, INC.

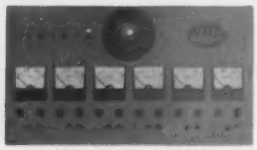
33 university road · cambridge 38, mass.

Nuclear Instruments

DESIGNED, BUILT AND BACKED BY NMC INDIANAPOLIS, INDIANA

COMPLETE MONITORING SYSTEMS

MODEL AM-33R



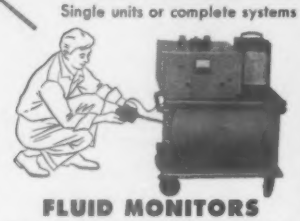
FOLLOW METER PANELS FOR CONTROL ROOM

AREA MONITORS

Single units or complete systems

AIR MONITORS

MODEL	CHANNELS	FILTERS	ACTIVITY DETECTED
AM-2A	1	Fixed	α, $\beta\gamma$ or γ
AM-3A	1	Moving	α, $\beta\gamma$ or γ
AM-22R	3	Fixed	α and $\beta\gamma$ Shows ratio of $\beta\gamma/\alpha$
AM-33R	3	Moving	α and $\beta\gamma$ Shows ratio of $\beta\gamma/\alpha$



FLUID MONITORS

For gases or liquids. Volume: 30 liters.

GAMMA SPECTROMETER SYSTEM

(AUTO-SCAN)

The only system that (1) eliminates the dark current defect, (2) analyzes emitters from 1 kev to around 6 mev, and (3) permits direct comparison of emitters using semi-automatic peak integration.

PROPORTIONAL COUNTING SYSTEMS

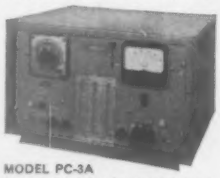
For precision evaluation of alpha and beta emitters.

PC-3A With decade scaler

PROPORTIONAL COUNTER CONVERTERS

Convert scalers into proportional counting systems.

PCC-10A Standard chambers PCC-11A Heavy shielding



MODEL PC-3A

COUNT RATEMETERS

MODEL CRM-11

CRM-11 Linear scale to 100k cpm.
LCRM-1 Area-equipment-personnel monitor. 50 to 50,000 cpm.

SCALERS

MODEL DS-1A

Feature high voltage system which operates GM, scintillation or other standard nuclear detectors.

DS-1A Decade DS-4 Slave decade

MEDICAL ISOTOPE LABS

LAB SHIELDS AND ACCESSORY PROBES

$\beta\gamma$ GM probes
γ scintillation probes
$\alpha\beta$ gas flow probes
Chromatogram strip counters

SHIELDED WELL COUNTERS

Background about 120 cpm.

For Details, Phone Collect—LIBERTY 6-2415

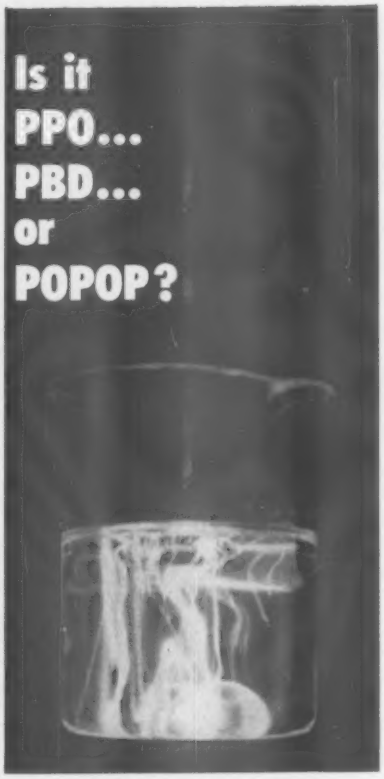
NMC INDIANAPOLIS

Nuclear Measurements Corp.

2462 N. Arlington Avenue · Indianapolis 18, Indiana

INTERNATIONAL OFFICE: 13 E. 40th St., New York 16, N. Y.

Is it PPO... PBD... or POPOP?



In this picture, POPOP has been photographed under ultra-violet light, dissolving in a beaker of toluene. If you guessed right, consider yourself among the initiated.

PPO, PBD, and POPOP are scintillation grade fluors, known chemically as:

2, 5-Diphenyloxazole
Phenylbiphenylyloxadiazole-1, 3, 4
p-Bis [2- (5-phenyloxazolyl)]-benzene

Produced by Pilot Chemicals, Inc., they're the purest available, with maximum light output and high melting point. But don't take our word for it. Send us your name and title and we'll send you a free sample of any one of the three.

Other Pilot Fluors Always in Stock:

BOPOB-p-Bis [2-(5-p-biphenylyloxazolyl)]–benzene
BBO-2. 5-Dibiphenylyloxazole
Diphenylacetylene
9, 10-Diphenylanthracene
p, p'-Diphenylstilbene
ALPHA-NPO — 2-(1-Naphthyl)-5-phenyloxazole
p-Quaterphenyl
p-Terphenyl
1, 1, 4, 4-Tetraphenylbutadiene

Only Pilot manufactures both fluors *and* plastic scintillators. Write for help on special problems. Ask for bulletin 591-N.

PILOT CHEMICALS, INC.
36 Pleasant Street, Watertown 72, Mass.

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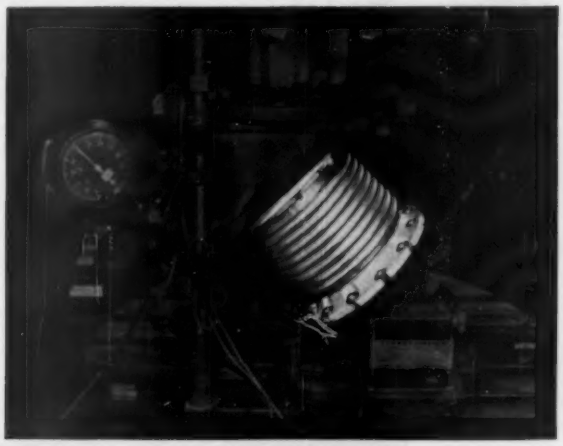
4 WAYS to get maximum reliability in expansion joints

1 Insist that the corrugated bellows be hydraulically formed. The reason is simple. Whenever bellows are formed by circumferential welding . . . whether by edge, seam or fillet welding . . . they will always be subject to premature failure because of stress concentrations at the welds.



2 Be sure the manufacturer maintains a continuous and comprehensive program of endurance testing. This is basic, because of the many variables that affect expansion joint life. Accurate determination of expansion joint life expectancy can only be determined by cycling to destruction.

3 Demand proof that the manufacturer can produce longitudinal welds in the corrugated bellows having the same strength, physical properties and thickness as the parent metal . . . without grinding. A weld that is hard to find is a ground weld. Variations in weld thickness set up points of stress concentration . . . opening the way for premature failure.

4 Check the ability of the manufacturer to supply a team of *competent* design and application specialists to work with your engineers. Check their specific experience in handling critical, complex applications in your field . . . complete to the record of successes or failures behind them, and details of how this experience will be brought to bear on your problem.

At Zallea, none of the many factors affecting expansion joint reliability are left to guesswork . . . including the four vital ones above.

This is reflected in these facts. Zallea material specifications are the most exacting in the industry. Zallea expansion joints are hydraulically formed. Zallea advanced welding techniques insure welds having the same thickness, strength and physical properties as the parent metal. Zallea has done more cyclic testing to destruction than all government agencies and industrial firms combined. Zallea has produced more expansion joints than any other manufacturer . . . offers more application engineering experience.

For all the facts, write for Catalog 56. Zallea Brothers, Taylor and Locust Streets, Wilmington 99, Delaware.

Zallea for maximum reliability

ZALLEA BROTHERS, Wilmington 99, Delaware • World's largest manufacturer of expansion joints

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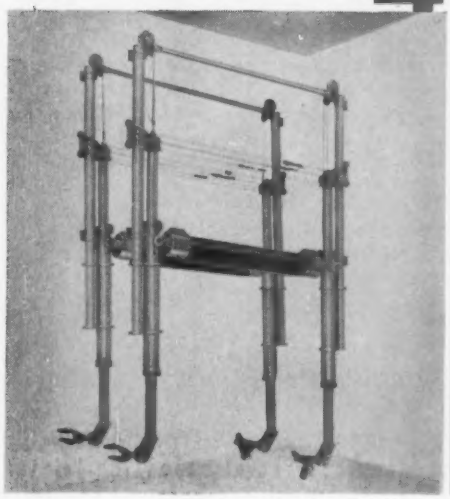
FOR DEFTNESS SIMPLICITY VERSATILITY

CRL *master-slave manipulators outperform them all!*

4



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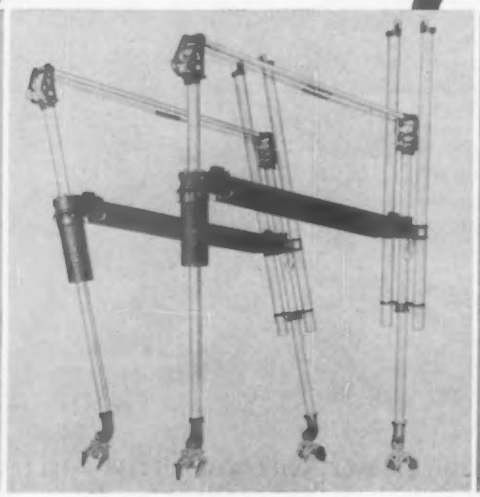

B

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With sensitivity and control approaching that of the human hand, Central Research Laboratories master-slave manipulators are ideal for the remote handling of hazardous materials. Because they duplicate the natural motions of the hand, the operation of Central Research units are simple and require practically no operator training.

The deftness characteristic of all CRL manipulators comes from careful design and manufacture, which results in exceptional balance, low friction and a remarkable "sense of feel." Like all natural motions, CRL manipulators maintain positive control throughout the whole operation.

Precision-crafted CRL manipulator components assure you of top performance and rugged reliability. Precise machining and close tolerance control assure standardization and interchangeability. Continuing design improvement adds versatility to the scope of CRL manipulator use and simplifies maintenance. Available accessories include interchangeable special purpose tongs, load hooks, motion locks, protective bootings for contamination control, and special mountings adaptable to a wide variety of hazardous materials handling purposes.

Hazardous materials handling problems? Central Research Laboratories Engineers will be happy to advise you on the handling of radioactive materials, explosives, hazardous chemicals, biological materials. Advice on coordinating master-slave manipulators with other equipment is available at any time. For complete information, write CRL today.

Central Research . . .
performance proven manipulators for every need

for over-wall installations

CRL MODEL 4—General purpose, for installation over barrier wall or through protective enclosure ceiling opening. Recommended for work where extreme shielding, restricted space or portability are not important factors.

for restricted-space installations

CRL MODEL 7—Space conserving and lightweight for use in junior cave and intermediate level shielded enclosures where minimum clearance and portability are important. Relocation without special equipment is simple yet this unit has proven reliability and ruggedness.

for canal or pool operations

CRL MODEL B—For grappling or fishing at the bottom of a canal or pool, master-slave manipulator-type wrist joints are provided at both ends of vertical tube for versatile operation. Constant force spring suspension supports manipulator above canal or pool. Vertical tubes supplied to meet customer requirements. All underwater components are stainless steel. Locking hand grip and interchangeable tongs are standard.

for thru-wall installations

CRL MODEL 8—For intermediate to high-level shielding. Independent slave-end angular indexing provides extended work-space coverage and ease of installation or removal. Also available with patented lateral rotation. Special features include: smooth contoured slave-end pivot joint for complete contamination control booting; enclosed roller azimuth assembly; identical collapsed lengths for master- and slave-ends; special bearings for low starting torque on azimuth rotation; wrist joint design minimizes possible gear damage from severe impact; continuously variable speed control on angular separation indexing; improved tong and tong interchange fixture. Special shieldings include labyrinth-type equivalent to wall barrier, and air-flow limiting features. Master locking grip with positive one finger control of angular separation indexing is standard. Handles adjust to wide range of hand sizes. Handling capacity: 20 lbs. for one arm.

for extremely hazardous materials

CRL MODEL A—For high-level alpha-gamma hot cells, for handling pyrophoric, highly toxic gaseous or airborne particulate materials—wherever complete atmospheric containment, prevention of dissemination by explosion or other accident is essential. Special features: double rotary mechanical seals between master and slave mechanisms; "push-thru" seal-tube replacement keeps wall port sealed, contaminated assemblies remain in cell for disposal or decontamination, need never be brought out to operating face; three standard interchangeable subassemblies simplify maintenance. Other features—coverage, usable accessories, and capacity—essentially identical with CRL Model 8.

new for rugged service

CRL RUGGED-DUTY MODEL D—A redesign of standard Model 8, this new unit safely provides—with fully extended boom—100 lbs. capacity in all directions and 25 lb.-ft. wrist rotation torque. Wrist joint and azimuth rigidities have been increased four and twenty-fold, respectively. Interchangeable with standard Model 8, new Model D has dexterity to perform similar delicate operations. Doubt adequacy of Model 8 for your application? Consider new Rugged-Duty Model D before procurement. See Model D demonstration at 1960 Atom Fair in San Francisco.

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improved manipulators for every need

New important refinements are a part of every Central Research Laboratories master-slave manipulator. Many of these improved features can be added to manipulators already in service. This program of improvement without obsolescence and CRL's policy of immediate delivery of spare parts assures customers of complete satisfaction.

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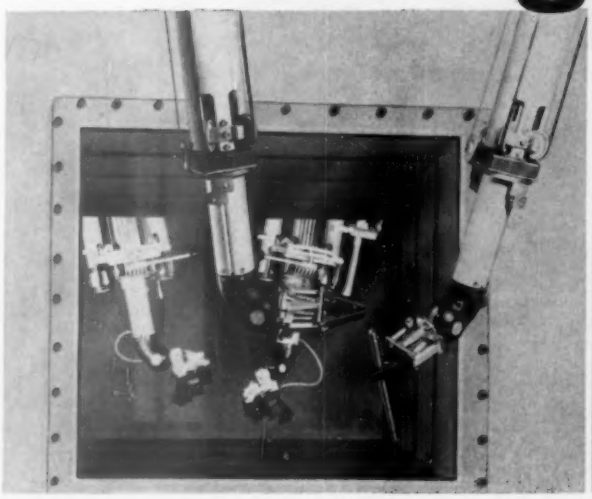
8



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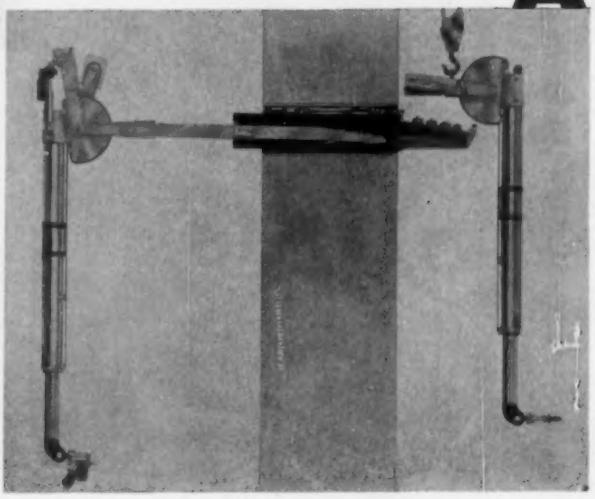

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RCA carries in stock many different types of radio transmitters. Although designed primarily for broadcasting, television and communications use, these equipments can be easily adapted for any purpose requiring radio-frequency power. Manufactured in quantity they are reasonable in price. Shipment is immediate!

Units in stock cover the frequency range from 500 kilocycles to 1000 megacycles—provide power outputs from one watt to 50,000 watts. Larger powers (up to 500,000 watts) can be obtained by paralleling units. Pulsing or modulation can be provided as needed.

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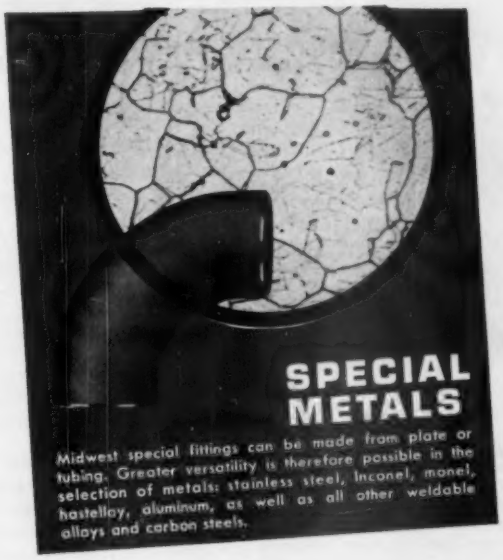

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Midwest's wide experience and skills with forging presses and dies permit forming plate or tubing into unusual shapes for special applications . . . elbows with or without long tangents, wyes, extrusions, and other special configurations.

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Wall thicknesses in a wide range of sizes are available in Midwest special fittings, up to 4" or more in carbon steel and a wide variety of alloys . . . stainless steel, Inconel, titanium, and others.

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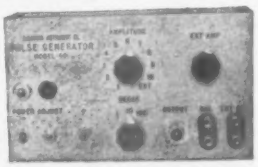

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CHARCO "NEO-SOL" DRY BOX GLOVES IN USE AT ARGONNE'S PLUTONIUM REACTOR FUEL ELEMENT FABRICATION FACILITY.

PROUD RECORDS OF RELIABLE PERFORMANCE BY CHARCO DRY BOX GLOVES HAVE BEEN MADE IN THIS COUNTRY AND ABROAD, IN MAJOR ATOMIC ENERGY INSTALLATIONS: ALSO IN BIOLOGICAL AND INDUSTRIAL RESEARCH FIELDS!

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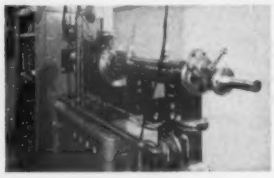
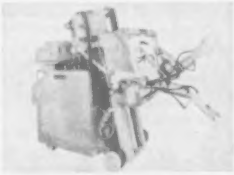
Just what part does Hughes play?

It all started some six years ago. As a leader in military and commercial electronics, Hughes was keenly aware of the vital inter-relation between nuclear technology and electronics technology. ■ The specific question which Hughes engineers sought to answer was, "What are the effects of nuclear radiation on electronic systems?" ■ To answer this question, Hughes brought together leading scientists in both the nuclear and electronics fields. ■ In the process of solving this problem, these scientists and engineers became acutely aware of the need for adequate equipment for radiation generation, measurement and handling. They proceeded to develop these badly needed devices—both to solve their own problems, and to make them commercially available. ■ The linear accelerator is a typical example. The need to accurately simulate the gamma radiation from nuclear detonation was apparent. So, Hughes developed and built the first gamma accelerator with variable pulse widths, a high repetition rate, and a high peak electron beam current (over 1 amp). For more extensive investigation of the nuclear environment, Hughes also builds a pulsed reactor for the simulation of neutron radiation. ■ Radiation detection devices that were faster, more compact, and more versatile were also needed. This problem was solved when Hughes scientists developed an incredibly small (2 mm square) solid state detector with better than 1% resolution and response time of less than 1 nanosecond. ■ Remote handling of highly radioactive objects was another problem examined by Hughes. In designing radiation research facilities for the investigation of nuclear radiation effects, novel applications for proven electronic control techniques were found. One result was the Hughes MOBOT*, a completely remote controlled handling machine using TV vision and electronic controls. ■ So, what part does Hughes play? Hughes specializes in nuclear radiation—analysis of effects, and products for its generation, measurement and handling. If you have a radiation problem, we would like to talk to you about it. Write, wire or call collect: HUGHES NUCLEAR ELECTRONICS LABORATORY, P.O. BOX 90915, LOS ANGELES 45, CALIF., TWX INGL 4036, ORCHARD 0-1515, EXT. 5355.



Hughes High-Current Linear Electron Accelerator



Hughes MOBOT Mark I for remote controlled handling

Hughes Solid State Nuclear Radiation Detector

Effect of pulsed (low dose, high rate) radiation on a vacuum tube amplifier

Radiation Off Radiation On

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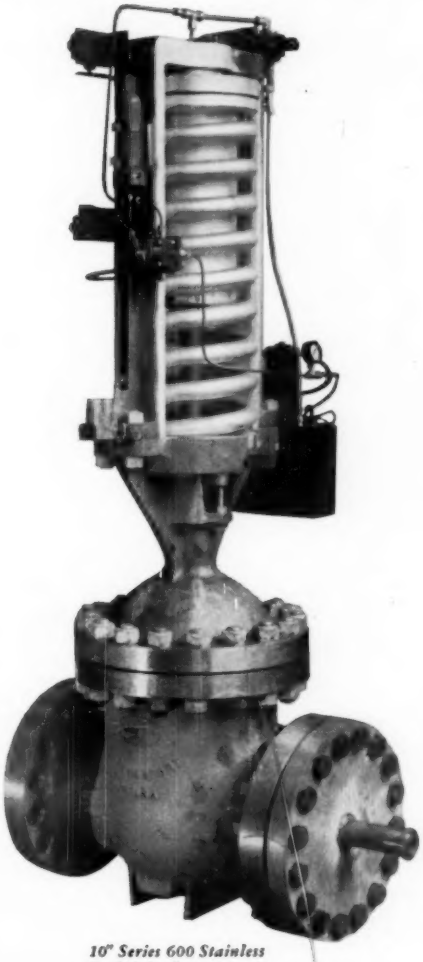
10" Stainless Steel cylinder-operated, 150 lb. gate valve equipped with special limit switches.



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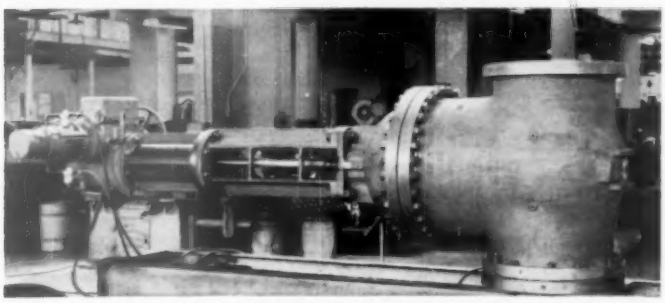
Our broad range of sizes, pressure classifications and operating mechanisms can often be readily modified to meet your service needs. Or we can design and produce special valves "from scratch" when required. Send us your specifications for recommendations and quotes.



High temperature Stainless Steel Valve, produced for a large overseas petrochemical plant.

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Manufactured in Canada by Sandilands Valve Manufacturing Co., Ltd., Galt 19, Ontario

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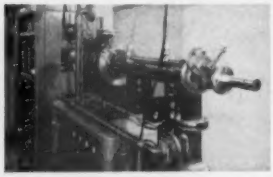

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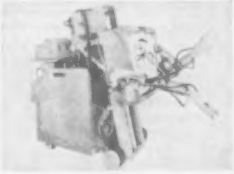

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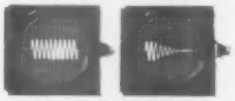

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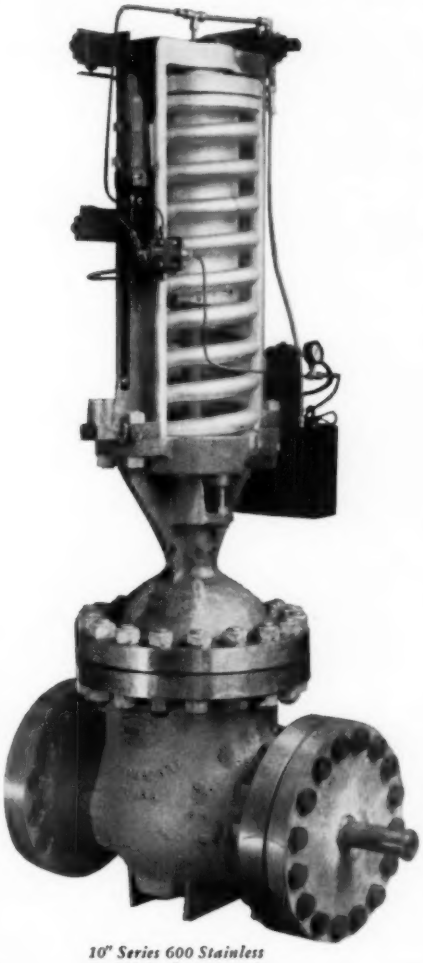

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FLEXIBLE thinking

RIGID quality control

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CLOSE TOLERANCE machining know-how

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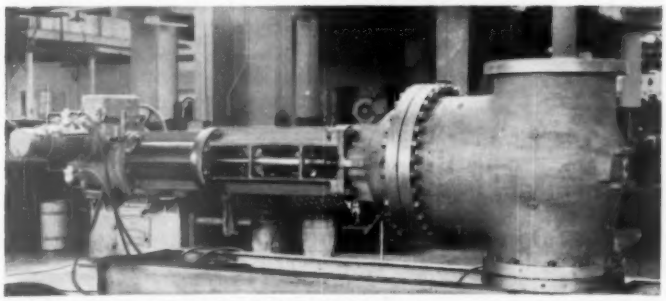
Our broad range of sizes, pressure classifications and operating mechanisms can often be readily modified to meet your service needs. Or we can design and produce special valves "from scratch" when required. Send us your specifications for recommendations and quotes.



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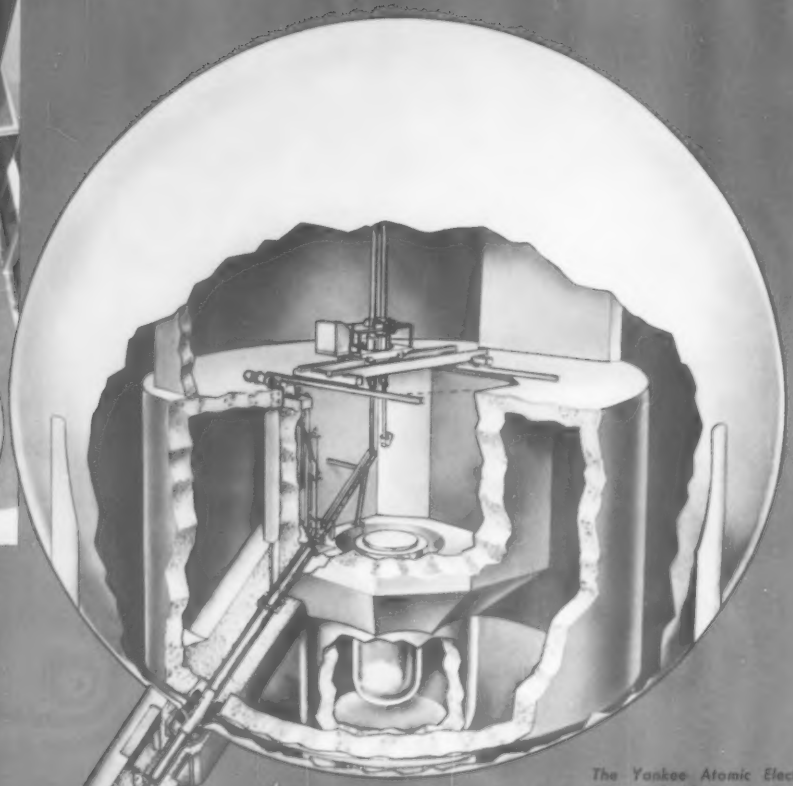
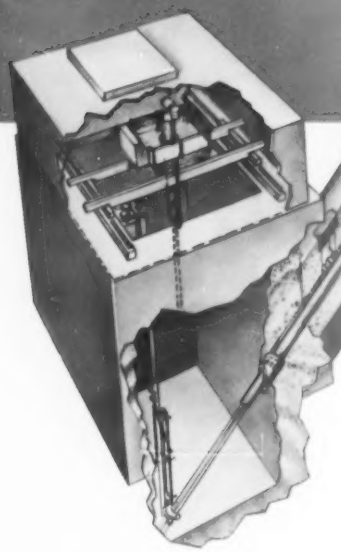
Seven fuel handling systems have been designed and developed by United for Naval and Commercial nuclear reactors including the fuel handling system for Yankee Atomic Electric Company's new plant as shown here.



The Yankee Atomic Electric Company Plant at Rowe, Massachusetts

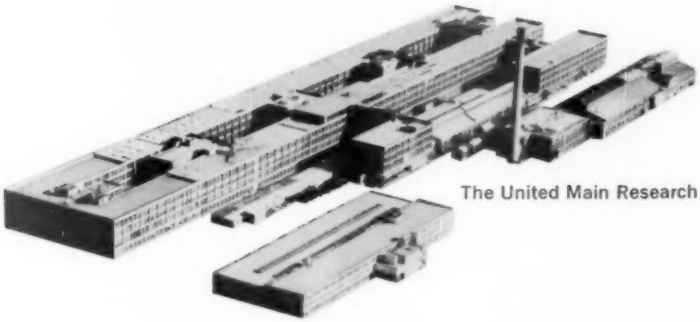


United APD...

Chalk River engineers are now testing this type of United hermetically sealed valve, shown here in a typical installation.

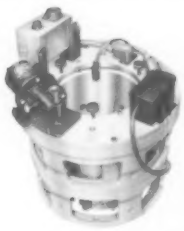
Hermetically sealed valves are available from United in ½", 1" and 2" sizes. Developed for pressurized water service they incorporate **United Harmonic Drive.** The valves are designed to Naval and Commercial specifications and have been tested in diverse media. Features include packless construction with zero leakage to atmosphere, immediate plug positioning, mounting in any attitude, and manual or motorized operation.

Atomic Power Department Facilities are located in the United fully integrated main Research and Manufacturing Center. APD's installation provides complete facilities for mechanical and environmental test. Upper level on test facility shown here simulates operating pressurized water reactor conditions.



The United Main Research and Manufacturing Center.

Reactor Components for Nuclear Programs



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A dual purpose machine, combining both the welding and cutting operation also has been developed by United.

The Atomic Power Department at United has demonstrated specific experience in the design, development and manufacture of nuclear components including: **Fuel Handling Systems • Hermetically Sealed Valves • Seal Welding and Cutting Equipment • Control Rod Drive Mechanisms.** We would welcome the opportunity to discuss your problems or requirements in the development of your reactor components systems. Literature and descriptive bulletins are available and requests for specific information and engineering assistance will be handled promptly. United Shoe Machinery Corporation, Atomic Power Department, Beverly, Mass. Address overseas inquiries to: International Division, 140 Federal Street, Boston, Mass.

United

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Beverly, Massachusetts

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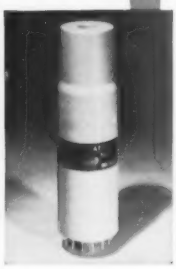
- Convenient mounting flange
- Ready to use



Every Harshaw crystal is a product of our experience in crystal growing technology since 1936

Other Phosphors Available from The Harshaw Chemical Company

ROUGH CUT THALLIUM ACTIVATED SODIUM IODIDE CRYSTAL BLANKS • EUROPIUM ACTIVATED-LITHIUM IODIDE (NORMAL) • EUROPIUM ACTIVATED LITHIUM IODIDE (96% Li^6 ENRICHED) • THALLIUM ACTIVATED CESIUM IODIDE • THALLIUM ACTIVATED POTASSIUM IODIDE • ANTHRACENE • PLASTIC PHOSPHORS

OPTICAL *Crystals*

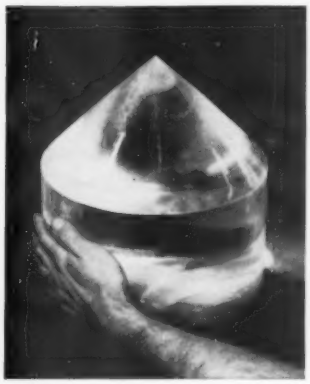
For Infrared and Ultra Violet Transmitting Optics

"HARSHAW QUALITY" INHERENT IN EACH HARSHAW-GROWN CRYSTAL GUARANTEES THE MOST EFFICIENT OPTICAL TRANSMISSION POSSIBLE THROUGH:

1) Negligible light scattering in crystals, permitting higher sensitivity and improved resolution
2) Freedom from absorptions caused by trace impurities in crystal optics
3) Minimum strain

"HARSHAW QUALITY" meets the demand for uniformity of optical properties such as dispersion and refractive index.

Prices, specifications, or other information will be sent in answer to your inquiry.



The following infrared and ultra violet transmitting crystals are available; others are in the process of development:

SODIUM CHLORIDE • SODIUM CHLORIDE MONOCHROMATOR PLATES • POTASSIUM BROMIDE • POTASSIUM BROMIDE PELLET POWDER (through 200 on 325 mesh) • POTASSIUM CHLORIDE • OPTICAL SILVER CHLORIDE • THALLIUM BROMIDE IODIDE • LITHIUM FLUORIDE • LITHIUM FLUORIDE MONOCHROMATOR PLATES • CALCIUM FLUORIDE • BARIUM FLUORIDE • CESIUM BROMIDE • CESIUM IODIDE

Additional information on the physical and optical properties of the above crystals is available in our 36-page booklet "Synthetic Optical Crystals". Send for your free copy.

THE HARSHAW CHEMICAL CO.
Crystal Division • Cleveland 6, Ohio

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Does ALITE® hold the missing piece for your nuclear engineering project?

In designing nuclear reactors and associated equipment for power, propulsion or research, you may be dealing with problems of temperature, pressure and corrosive conditions never met before. ALITE—the high-alumina ceramic that possesses many superior physical and electrical properties—may have the specific characteristics needed to help you solve any number of those unusually difficult and critical design requirements.

For example, if you are seeking an exceptionally strong, hard, non-porous material that must retain high mechanical or dielectric strength at temperatures up to 1300°-1600°C; that has high resistance to nuclear radiation, corrosion, abrasion and thermal shock; that can be produced to precision tolerances; that can be metalized and brazed to metal to form rugged, vacuum-tight seals—it is possible that Alite will give better results than any other material.

Frankly, we're not certain just where this versatile material might fit into your program. We do know that Alite has proven useful in various reactor structural components and as a crucible material for processing various reactor materials. If you would like to explore the possibilities of applying Alite to your nucleonic design problems, our ceramics specialists will be happy to study your requirements and assist you in every way possible.

For detailed technical data on Alite and Alite Ceramic-to-Metal Seals, write for Bulletins A-7R and A-40.

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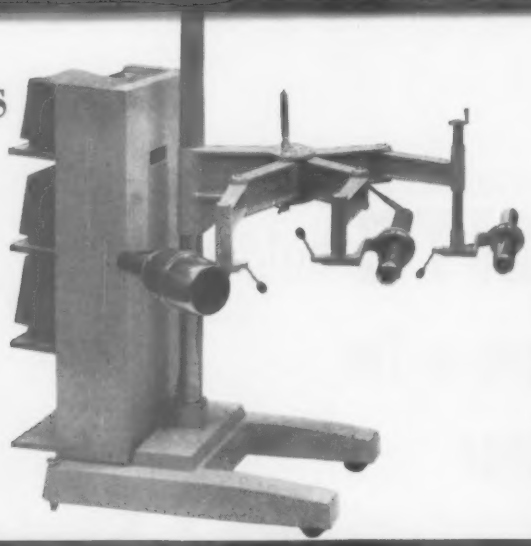
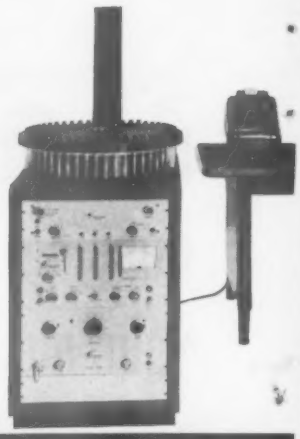
Integrated Systems

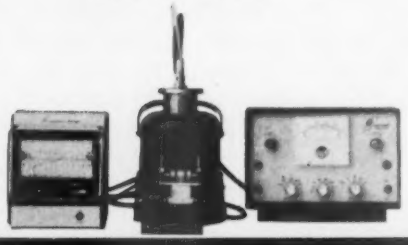


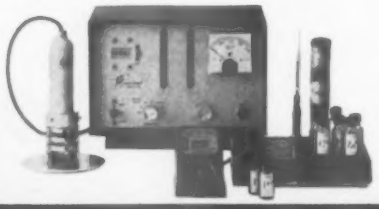


(Above) New Model DS-303 Scintillation Well Detector has three inch crystal with well 1⅛" in diameter to permit use of 25 mm diameter test tubes with sample volumes up to 20 ml.

(Above) New Model 1710 is a sturdy, compact, and versatile Clinical Stand for holding as many as three scintillation detectors and a variety of radiation measuring instruments.

(Above) New Model C120 Automatic Sample Changer for scintillation well detectors accepts up to 49 test tubes holding gamma emitting liquid or solid samples, lowers them sequentially into well detector for measurement.





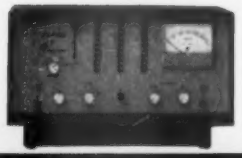
Model C100B Actigraph II permits continuous automatic scanning of 50 ft. strip radiochromatograms—offers variety of speeds synchronized with chart recorder.

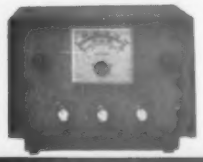
Model 6000 Dynacon Electrometer measures beta radiation in solid, liquid, or gaseous phase samples. It is ideal for use in continuous flow analysis.

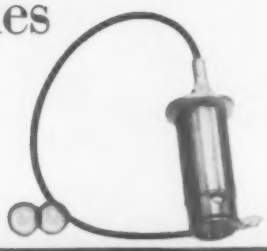
Model 4000 Nuclear Training System is ideal for laboratory studies or classroom demonstrations on the uses of radioisotopes in chemistry, biology, physics, and medicine.

Nuclear-Chicago offers world's most complete line for RESEARCH—

Instruments and Accessories







SCALERS

A complete line of decade, binary, and portable scalers with one or five microsecond response. Input sensitivities for G-M scintillation, or proportional detectors.

RATEMETERS

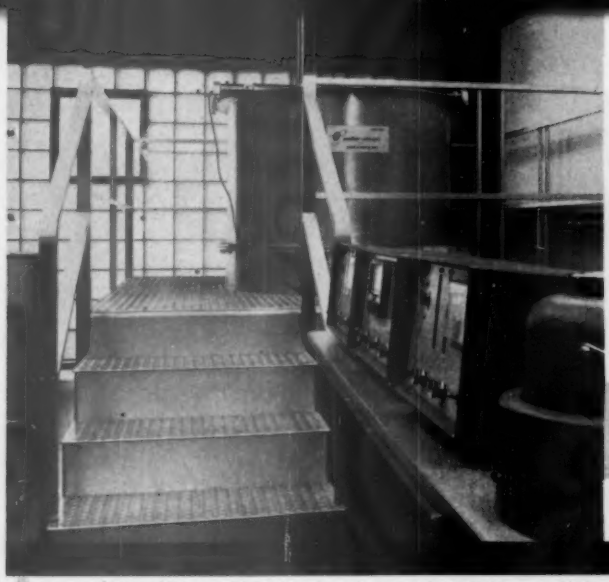
Meter and/or aural indication; wide choice of ranges. Portable and laboratory models available for G-M and scintillation detectors.

DETECTORS

Full line of G-M detectors including end window, side window, and dipping types. Shielded or exposed crystal scintillation detectors. Window or windowless gas flow detector. BF_3 tubes.

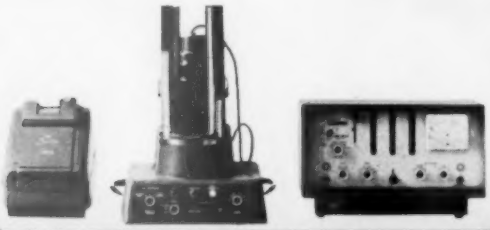
RADIOCHEMICALS

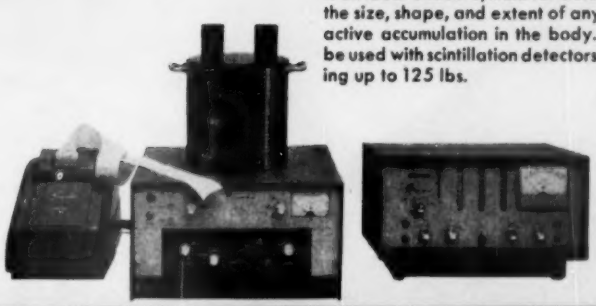
Hundreds of C-14, S-35, P-32 and tritium labelled radiocompounds. A wide variety of radioactive reagents for nuclear experiments in chemistry and biology available in radio-nuclide sets.



(Above) Model 9000 Nuclear Training Reactor is a complete subcritical assembly for nuclear education—the ideal nucleus for a college engineering, physics, or chemistry laboratory.

(Above) Model 1700A Isotope Scanner is an ideal clinical system for determining the size, shape, and extent of any radioactive accumulation in the body. It may be used with scintillation detectors weighing up to 125 lbs.





Model C110B Automatic Sample Changer accepts up to 35 solid beta emitting samples for automatic analysis. It may be used with window or windowless gas-flow detectors and end-window G-M Tubes.

New Model C115 Automatic Sample Changer has a background of only 2 counts per minute. High beta sensitivity is achieved with unique "guard" counter and new gas flow detector with exclusive Micromil® window.

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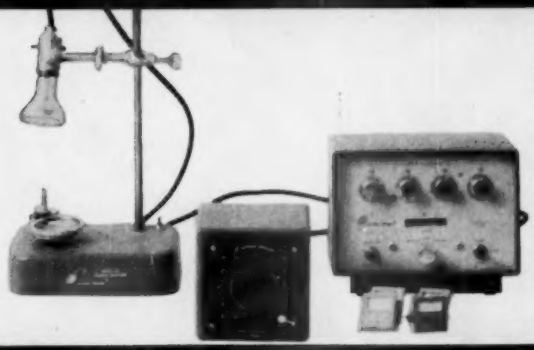


Nuclear-Chicago Corporation offers the world's largest sales and service organization devoted purely to the needs of the radioisotope user. Nuclear-Chicago sales engineers and service men throughout the world are qualified through extensive training to assist in the planning and building of radioisotope units in research, industry, education, and medicine.

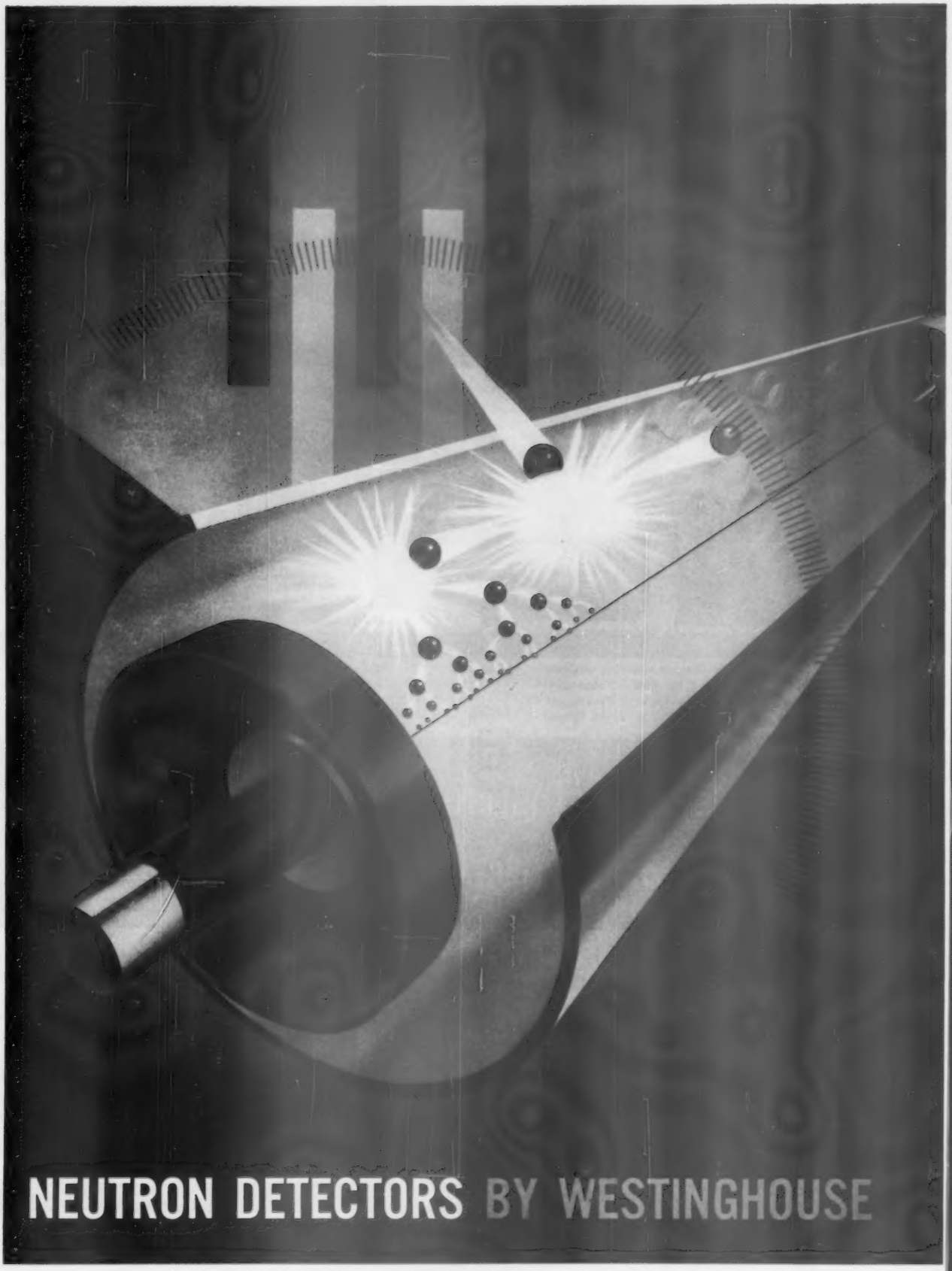
PORTABLES

Portable end or side window G-M detectors. Ionization chamber survey meters with choice of chambers for high or low activity measurements plus an integrating chamber for dose determination. Alpha and neutron sensitive portables.

ACCESSORIES

Nuclear-Chicago accessories for the radioisotope laboratory include timers, absorber sets, sample preparation devices, film badges, dosimeters, shielding, radiation sources, standards, nuclear training devices, recorders.

SERVICE



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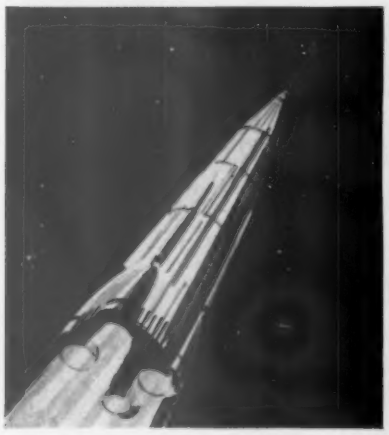
WESTINGHOUSE DETECTORS AND CABLES CAN HELP SOLVE YOUR PROBLEMS OF:

- **High flux**
- **Low flux**
- **High temperature**
- **Water immersion**
- **Radiation resistance**
- **Core mapping and monitoring**

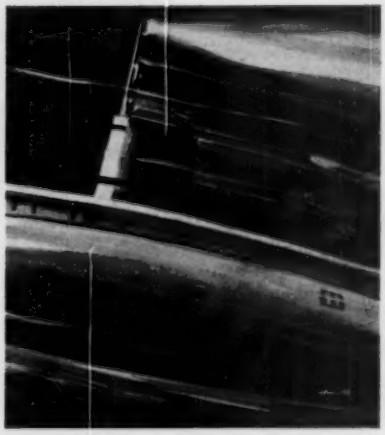
Over 50 special designs of detectors have been made by Westinghouse in order to meet specific customer applications—

IN OUTER SPACE



ON THE LAND

IN THE SEA



SEE WESTINGHOUSE DETECTORS AND CABLES AT THE ATOMFAIR IN SAN FRANCISCO DEC. 12 THRU 15, 1960. FOR FURTHER INFORMATION CONTACT: WESTINGHOUSE ELECTRIC CORP., ELECTRONIC TUBE DIVISION, P.O. BOX 284, ELMIRA, N. Y.

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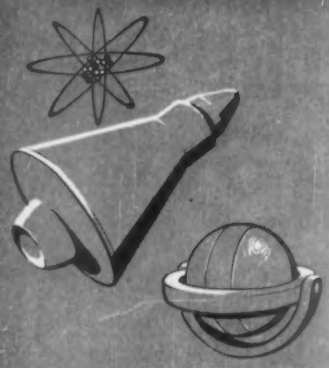
HIGH PERFORMANCE BERYLLIUM PRODUCTS

QMV® BERYLLIUM

The high temperature light metal with important thermal and nuclear properties.

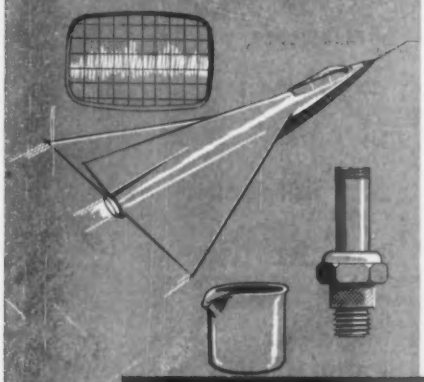


QMV beryllium, available in block, sheet, extrusions and forgings, can be machined, fabricated and joined by adaptations of standard techniques. Beryllium is being used extensively in nuclear devices as a moderator or reflector, in guidance devices, and in the design of advanced aircraft, for structural and heatsink applications.

	BLOCK	SHEET	EXTRUSIONS
ULTIMATE TENSILE (psi)	40,000	75,000	90,000
TENSILE YIELD (psi)	30,000	55,000	65,000
ELONGATION (%)	1-4	5-10	7-15
YOUNGS MODULUS	44,000,000 psi		
SPECIFIC HEAT	0.46 BTU/lb./°F		
THERMAL CONDUCTIVITY	0.3 BTU/ft.²/Sec (°F/in.)-¹		
ELECTRICAL CONDUCTIVITY	40-45% I.A.C.S		
DENSITY	1.85 g./cc.		
MELTING POINT	2345°F		
REFLECTIVITY—WHITE LIGHT	55%		
NEUTRON SCATTERING CROSS SECTION	7 BARNS/ATOM		
NEUTRON ABSORPTION CROSS SECTION	0.01 BARNS/ATOM		

UOX® BERYLLIUM OXIDE

The sinterable oxide for high performance applications.

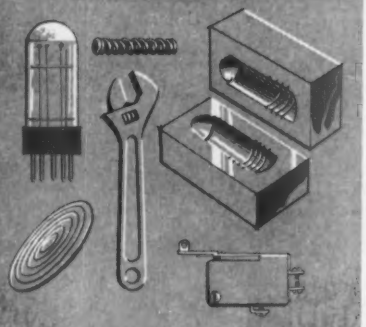


UOX, the high purity, sinterable ceramic oxide, is available as powder, crucibles, and special shapes fabricated to precision tolerances. Applications include nuclear moderators, reflectors and fuel matrices, heatsinks for aircraft and electronic devices, electronic tube components and metallurgical crucibles.

		ROOM TEMP.	2200°F.
COMPRESSIVE STRENGTH (psi)		114,000	20,000
TENSILE STRENGTH (psi)		18,000	4,000
MODULUS OF RUPTURE (psi)		35,000	14,000
MODULUS OF ELASTICITY (psi x 10^6)		45	20
SPECIFIC HEAT (BTU/lb./°F.)		0.24	0.57
THERMAL CONDUCTIVITY (BTU/hr./ft.²/°F./ft.)		125	9.7
RESISTIVITY OF LOW DENSITY BeO (Ohm-cm. x 10^6)		7000	4
SPECIFIC GRAVITY		3.008	
MELTING POINT (°F.)		4658	
COEFFICIENT OF EXPANSION (in/in/°F. x 10^{-6})	R.T.-500°F.	4.4	
	R.T.-2200°F.	6.2	
THERMAL SHOCK RESISTANCE		Excellent	
DIELECTRIC CONSTANT (10^7 cps)		5.9	
LOSS FACTOR (10^7 cps)		0.0004	

BERYLLIUM COPPER

High strength, good conductivity, corrosion and wear resistance, and excellent fatigue strength.



Available as casting alloy, master alloy, billets, forgings, bar, plate, and precision-rolled strip, these versatile alloys fill a wide range of uses including mechanical springs, electrical contacts, diaphragms, bellows, connectors, plastic mold cavities, non-sparking tools, switchgear, welding electrodes and wear surfaces.

TYPICAL MECHANICAL PROPERTIES OF BERYLLIUM COPPER PRECISION STRIP.

		BEFORE HEAT TREATMENT		AFTER HEAT TREATMENT		
Alloy	Temper	Tensile Strength psi	Elong. % in 2 in.	Tensile Strength psi	Elong. % in 2 in.	Elec. Cond. % IACS
25	Annealed	60- 78,000	35-60	165-190,000	4-10	22-25
	Hard	100-120,000	2- 8	190-215,000	1- 4	22-25
165	Annealed	60- 78,000	35-60	150-180,000	4-10	22-25
	Hard	100-120,000	2- 8	180-200,000	1- 4	22-25
10	Annealed	35- 55,000	20-35	100-110,000	8-12	48-55
	Hard	70- 85,000	5-10	110-125,000	5- 8	48-52
35	Annealed	35- 55,000	20-35	100-110,000	8-12	48-55
	Hard	70- 85,000	5-10	110-125,000	5- 8	48-52
25	XHM	Mill-hardened		170-185,000	3- 7	25-33
165	XHM	Mill-hardened		160-175,000	3- 7	25-33

OTHER BRUSH BERYLLIUM PRODUCTS

BERYLLIUM COMPOUNDS: Beryllium Fluoride, Hydroxide, Nitrate, Sulfate.
SYNTHETIC MICA: Powder and Block.
PRECISION-ROLLED STRIP: Phosphor-Bronze, Brass, Nickel-Silver. Stainless Steel.
ALLOYS: Beryllium-Aluminum, Beryllium-Nickel, Special Alloys.

Whether your problem is improving household appliances, or designing for interstellar exploration, beryllium or its oxide and versatile alloys should have a place in your planning. For more data, or application assistance, contact us at 5209 Euclid Avenue or ENdicott 1-5400 in Cleveland, Ohio.

THE BRUSH BERYLLIUM COMPANY

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STOKES

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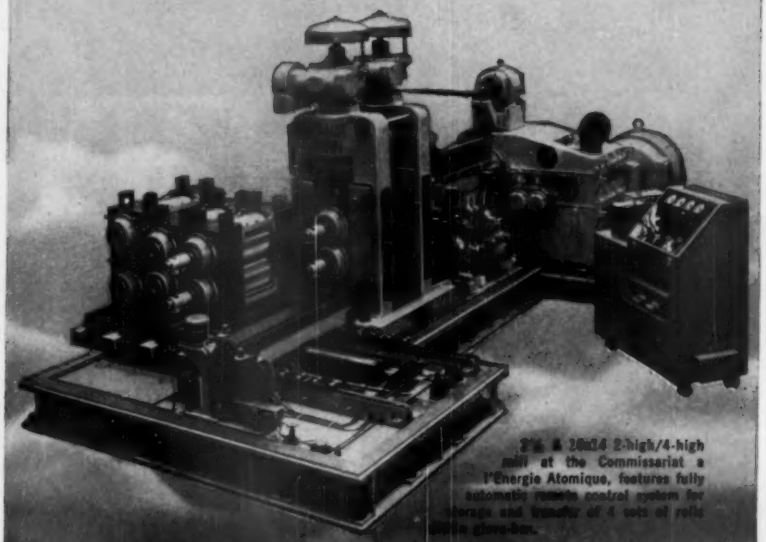
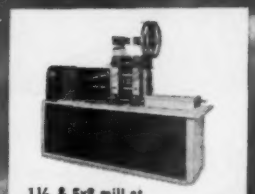
STANAT NUCLEAR MILLS



2½ & 10x14 2-high/4-high mill at the Commissariat a l'Energie Atomique, features fully automatic remote control system for storage and transfer of 4 sets of rolls inside glove-box.



1½ & 5x8 mill at Argonne National Laboratories.

Remote control roll removal mechanism for glove-box operation.

Stanat Mills are designed to meet varied and unusual requirements . . . they can be used for processing all types of nuclear materials such as plutonium, uranium, zirconium, beryllium and thorium, in flats and shapes.

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VIBRATING CAPACITOR

A vibrating-reed type capacitance modulator for use in measuring currents as low as 10^{-16} amperes.

Long term stability for process control. Drift ±0.2 millivolts per day, non-cum.

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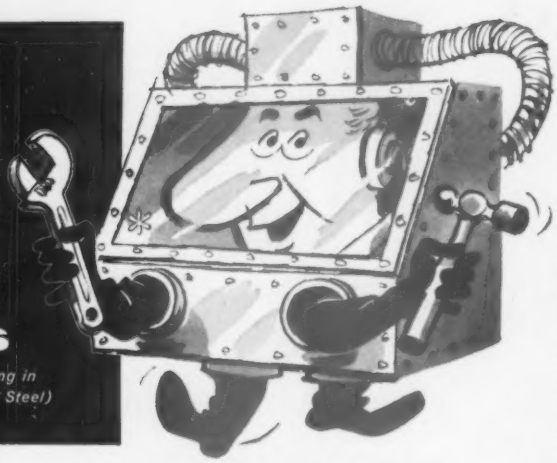
(Specializing in Stainless Steel)



* Here's the real "inside dope" and we're not referring to the happy young fellow portrayed above. (He's not even a member of our organization)

We are a division of Kewaunee Manufacturing Co., specializing in engineering and production of highly technical equipment and apparatus for research and industry. Our experience and facilities qualify us to custom design and manufacture, or assemble from stock, any of the following types of enclosures: glove, vacuum and dry boxes; dust free enclosures; and controlled atmosphere systems.

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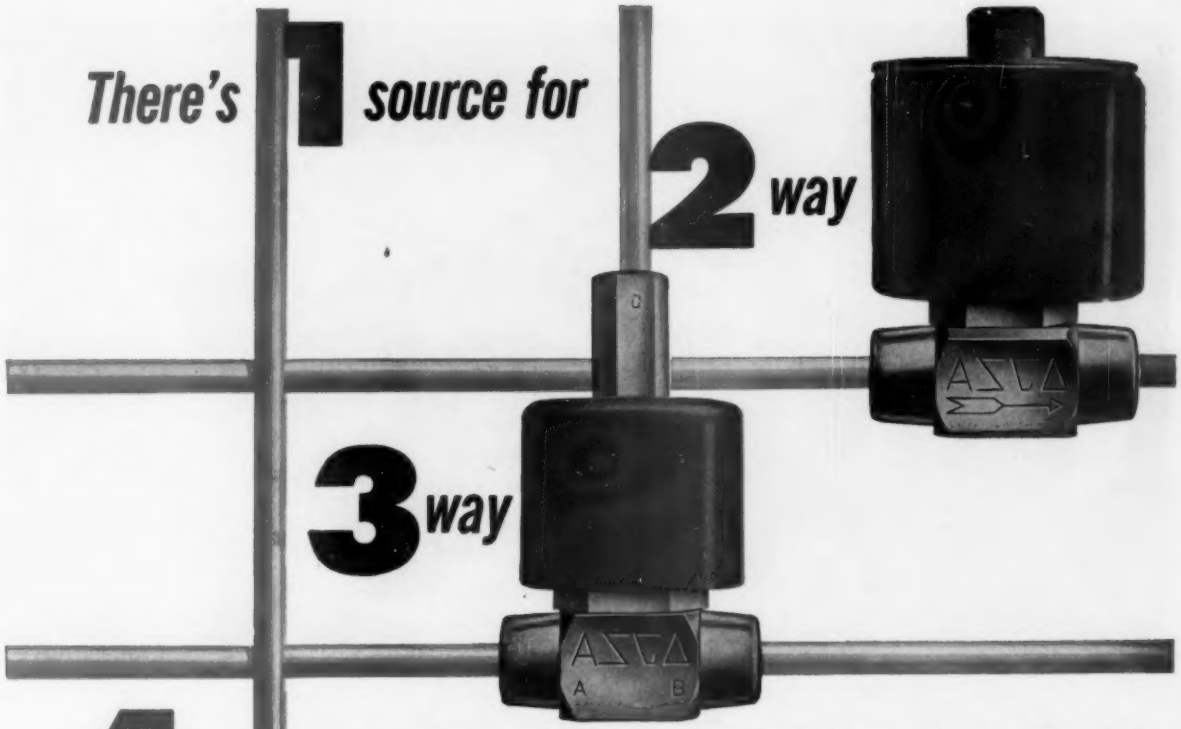
There's 1 source for 2 way 3 way or 4 way MIDGET SOLENOID VALVES



SHOWN ⅜ ACTUAL SIZE

Progressive designers, the men who lead the trend toward miniaturization, depend on ASCO as the one source for a full line of midget solenoid valves. The unexcelled quality and dependability that ASCO pioneered in the solenoid valve field is found, too, in today's midget solenoid valves. Only the size has been reduced.

For flow applications using air, gas, water, light oil, refrigerants and many other liquids, ASCO Midget Valves assure complete safety and truly exceptional performance.

ASCO Midget Solenoid Valves are available with standard, watertight or explosion-proof enclosures. Pipe sizes ⅛" and ¼"; pressure range 0-1000 psi.

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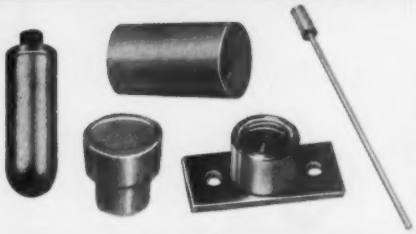

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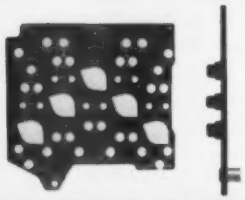

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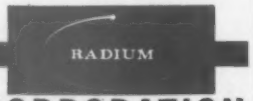

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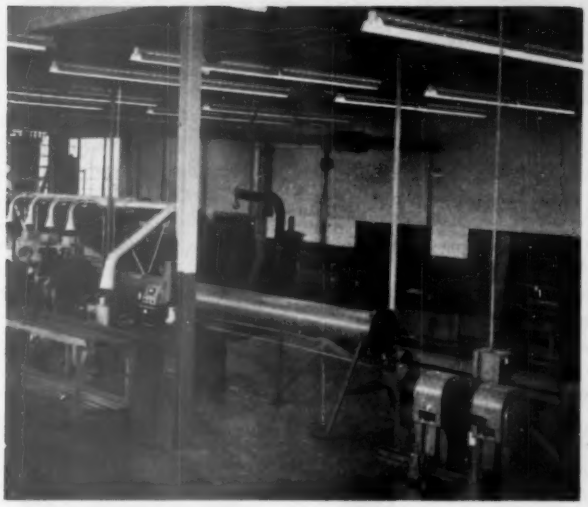

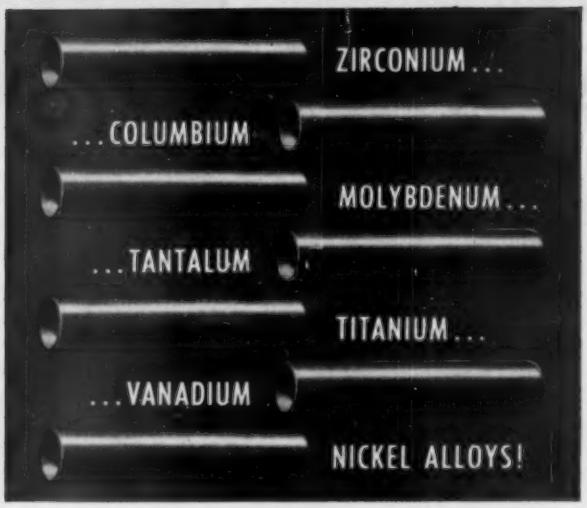

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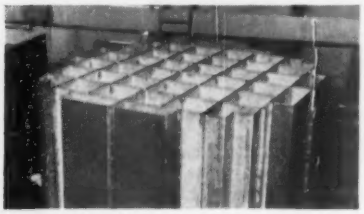

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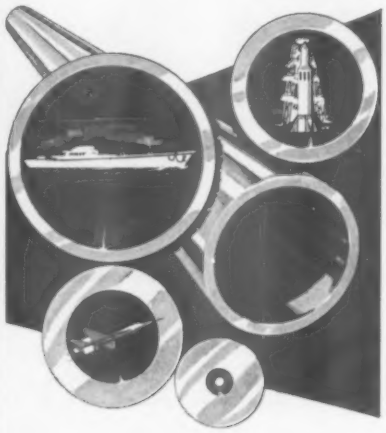

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These zirconium tubes are extruded and drawn to 53½ feet. They are **seamless** and **non-welded;** the most efficient for pressure tubes. Other zirconium tubes are produced by Harvey in a wide range of sizes from ⅜ to 8 inch O.D. and larger. Every tube is subjected to comprehensive inspection and test procedures. This includes pressure testing, corrosion testing, ultrasonic inspection, fluorescent penetrant testing, and other quality control practices required by the leading reactor manufacturers. As the country's largest melter of zirconium sponge, we're prepared to process any alloy you need—Zircaloy—2, 3, or 4; unalloyed zirconium; developmental alloys with special properties.

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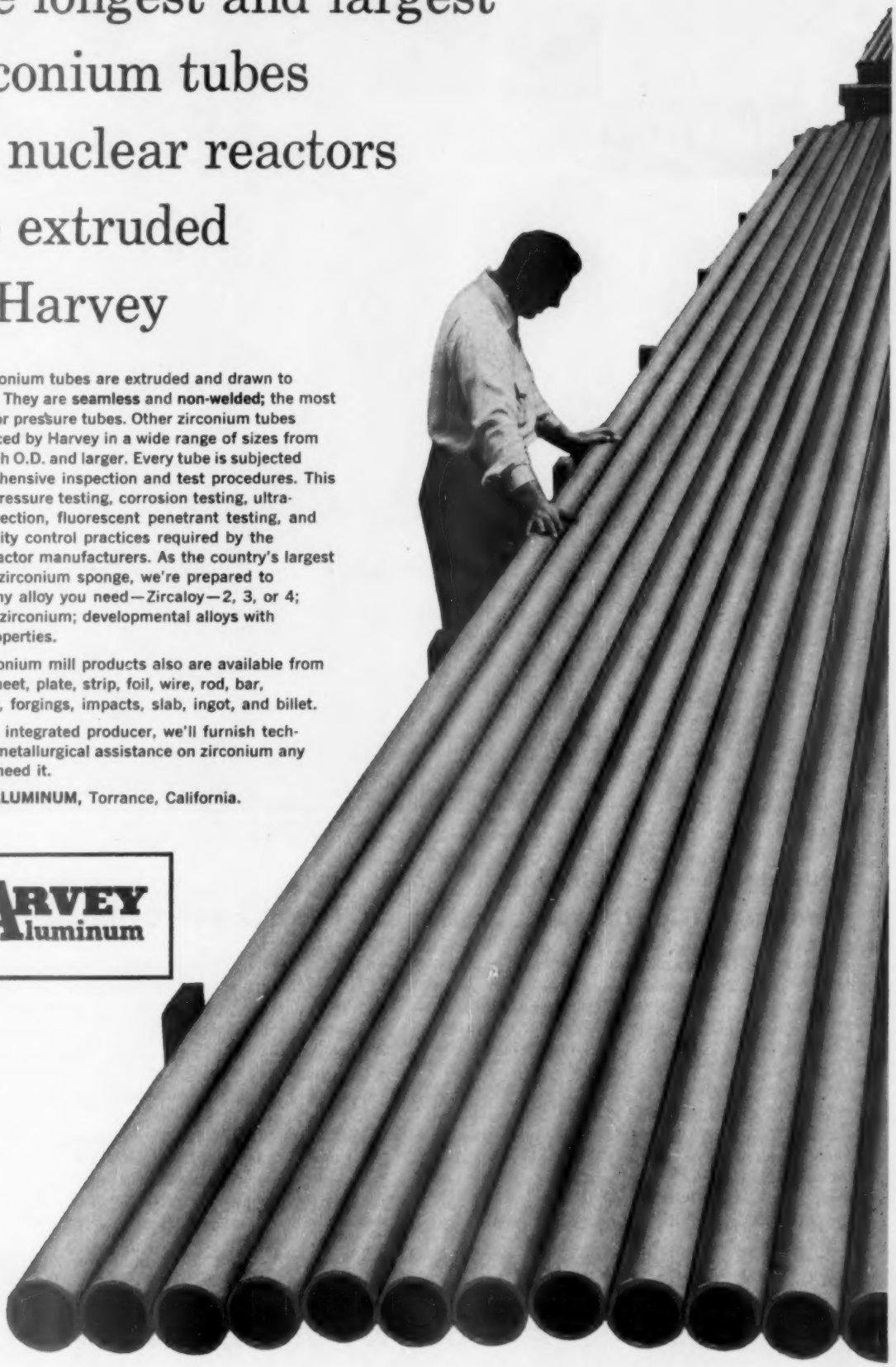

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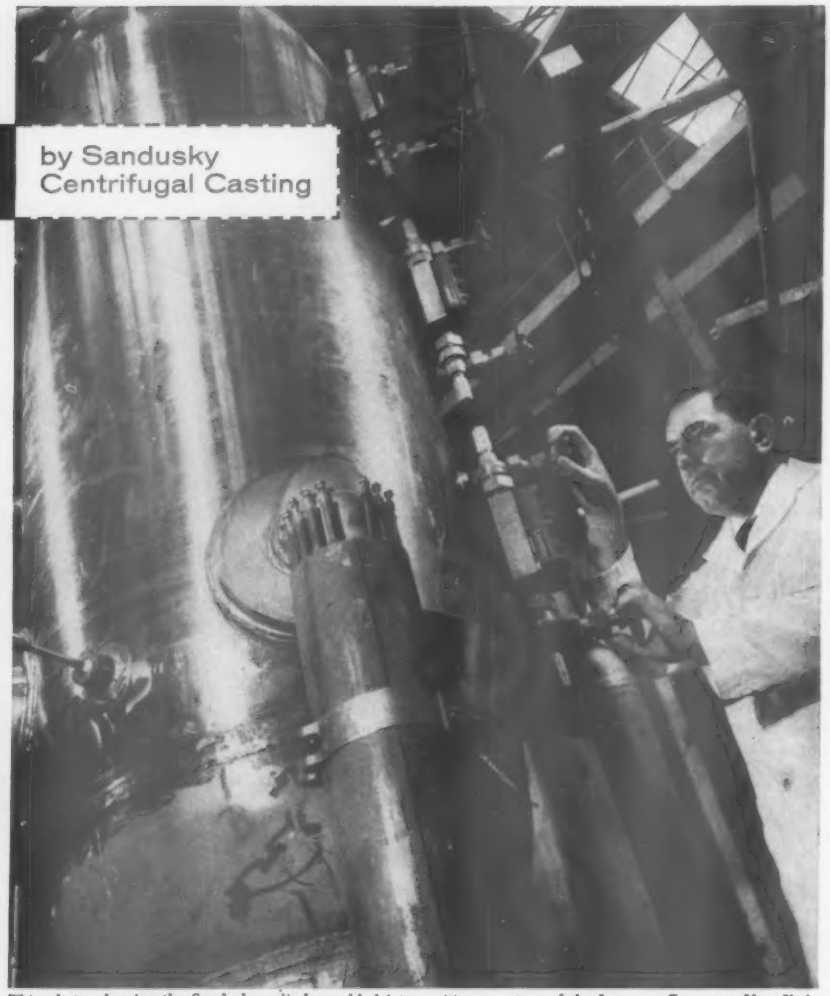
SOLVED: by Sandusky Centrifugal Casting



This photo, showing the Sandusky cylinder welded into position, courtesy of the Lummus Company, New York. New York who fabricated, assembled and tested the completed loop before shipping it to the ETR site in Idaho.

Nuclear Test Loop Uses Sandusky Centrifugal Casting as Pressurizer Cylinder

A Sandusky Centrifugal Casting is the main cylindrical component of an electrically heated pressurizer, designed by Knolls Atomic Power Laboratory to Section VIII, of the ASME Code (Unfired Pressure Vessels) for use in the new Engineering Test Reactor facilities at Idaho Falls, Idaho.

This 66¼" long cylinder, 27" O.D. with walls 2½" thick, was centrifugally cast of an 18-8 stainless steel (SA-351, Grade CF-8) for the extra corrosion resistance required under nuclear loop service conditions: demineralized water at temperatures to 650°F and pressures to 2500 PSI.

O. G. Kelley Co., Boston, to whom we delivered this 2-ton, fully machined cylinder, welded on the forged heads and nozzles, radiographed the welds, and hydro tested the completed vessel to 4300 PSI.

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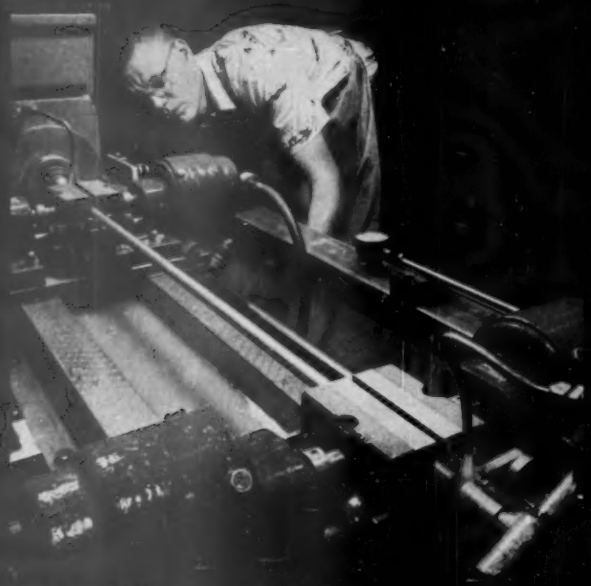

FUEL ROD TUBES are cut to length, to exacting specifications, automatically and checked on one machine.

FUEL ELEMENTS for the NS SAVANNAH reactor are checked for alignment and rod position before shipment.

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Over 3,000 fuel elements have been supplied by General Electric on firm-price contracts since 1955. Complete cores for 24 reactors, of all types, have been supplied or are in process now.

FOR EXAMPLE . . . the AEC's Engineering Test Reactor is using General Electric plate-type elements. General Electric's mechanical bonding processes for plate-type elements give added assurance of no costly shutdowns due to plate ruptures or buckling. Strict quality control in every stage of fabrication produces high-quality, long-life elements.

Commonwealth Edison's Dresden Nuclear Power Station, world's largest power reactor, uses General Electric uranium-oxide fuel elements. Experience, an extensive development program, and strict quality control, give the fuel element strength and high quality necessary to power tomorrow's power, research and test reactors.

Also at San Jose, General Electric is producing entire reactors, instrumentation equipment, control drives, and other reactor equipment—experience in these related fields is applied to the manufacture of each reactor fuel element. For more information on any G-E commercial atomic activity, contact your General Electric Sales Office. Outside the U. S. and Canada, write to International General Electric Company, New York 17, N.Y.

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Fuel element alignment

Fuel loading at Dresden

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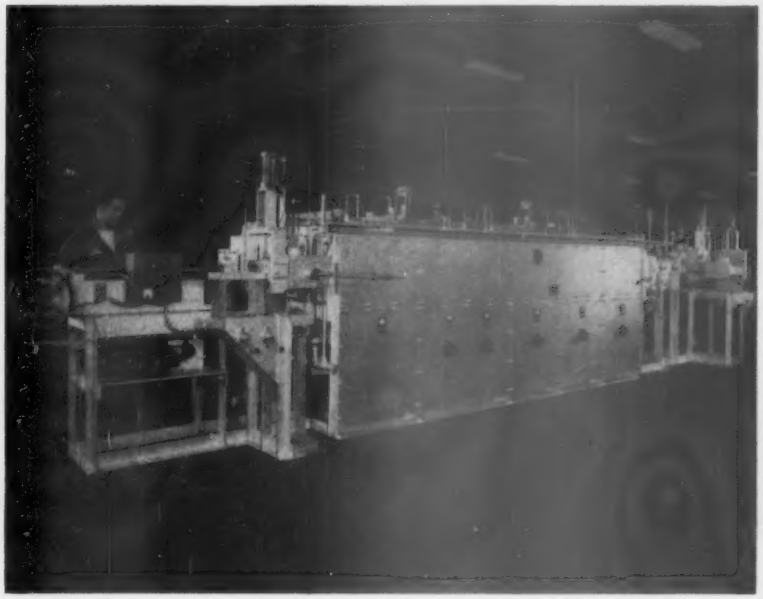

This newly-designed Harper Pusher Furnace for sintering uranium oxide, is one of two units recently delivered to a long-time Harper user. Among its modern features is a sensing device for tray buckling which will stop the pusher and sound an alarm if there is a variation of 1/16" in movement of the first and last tray in the furnace.

Nucleonics men look to HARPER ... the pioneer

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A WIDE RANGE of furnaces is available from Harper for all stages of ceramic fuel element work: Research, pilot plant, or full scale production. Each unit is specifically engineered for these economic advantages: Low hydrogen consumption, purity of atmosphere, safe use, low overall operating cost.

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These S-type tubes are given an operational counting test using a sealed liquid scintillator cell containing tritiated toluene, to confirm that they fall within accepted limits for thermionic emission and sensitivity.

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Cathode dia., mm.	44	44	44	23
No. of dynodes	13 Ven. blind	11 Ven. blind	10 Ven. blind	11box/grid
Type	SbCs	SbCs	SbCs	SbCs
Overall Sensitivity, A/L	2000	200	250	200
Dark current, uA	.03	.003	.005	.002

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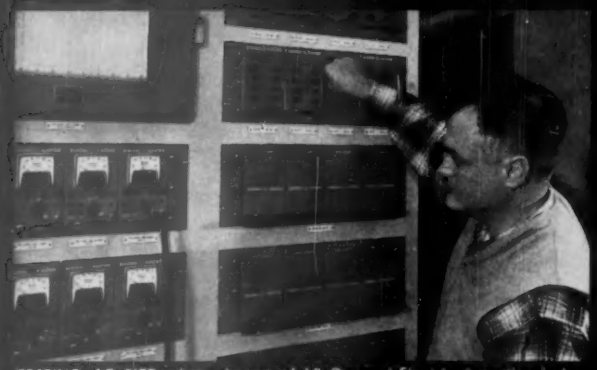

TESTING AT SITE—here, in one of 12 General Electric operating instrumentation installations—helps assure complete system coordination.

Nuclear instrumentation now available from General Electric includes:

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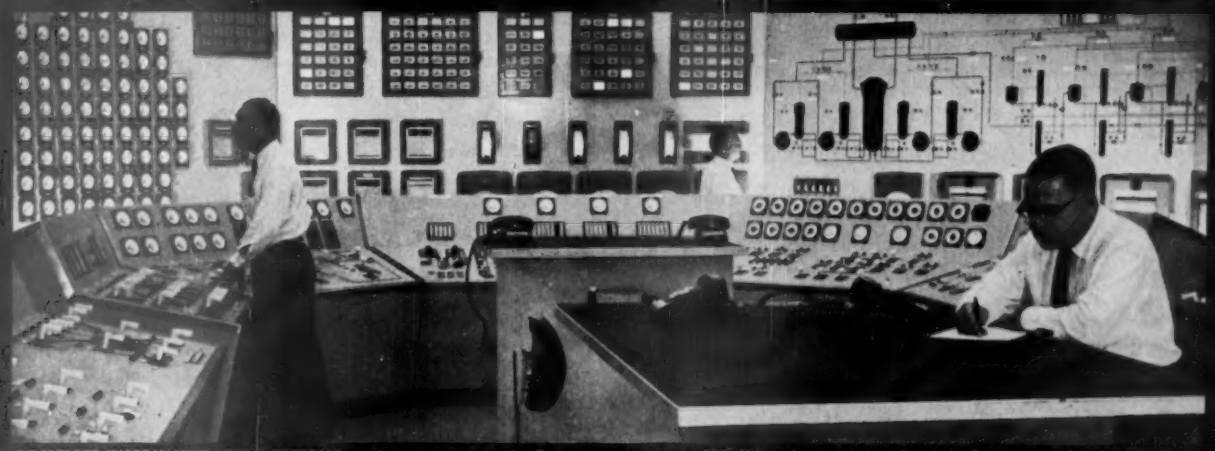

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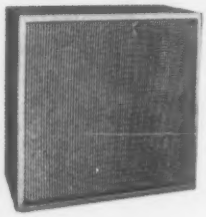

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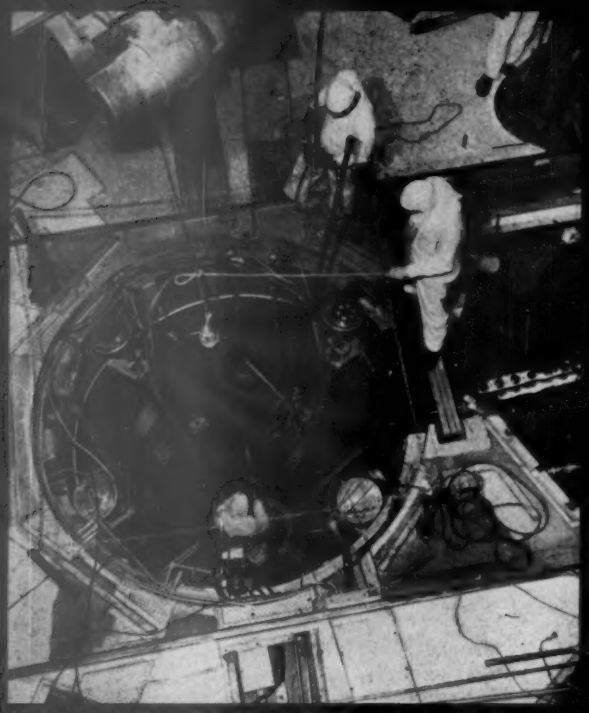

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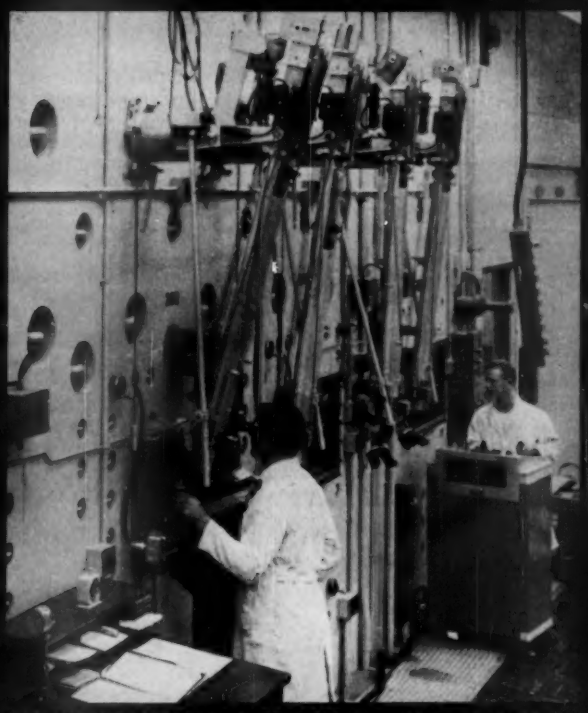

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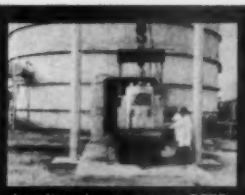

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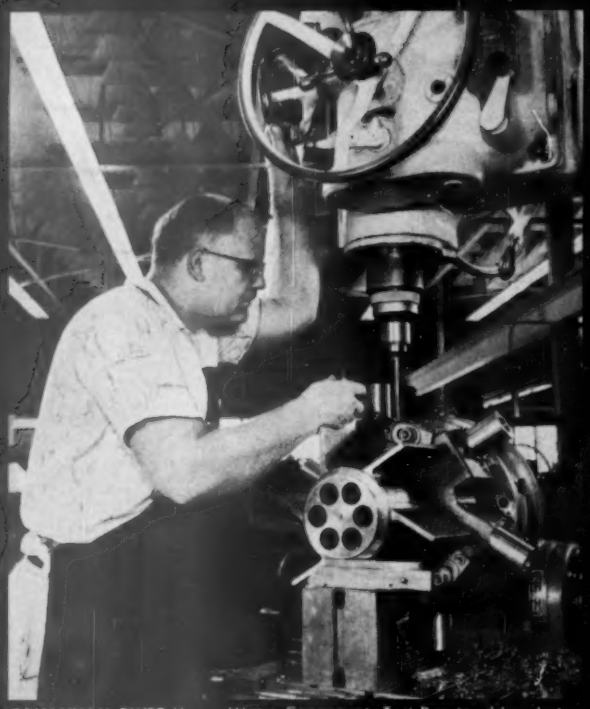

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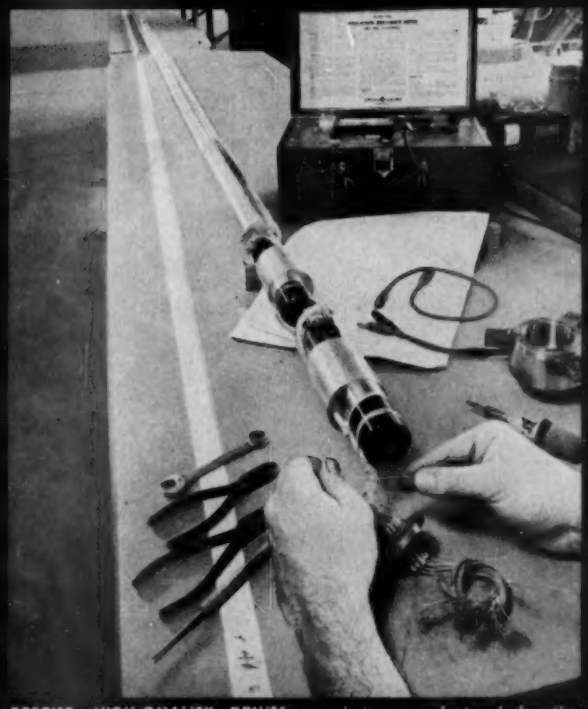

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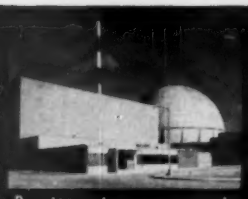
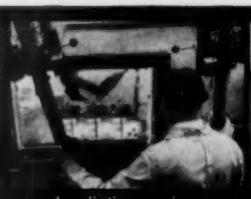


Reactor systems, components

Nuclear fuel



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Organized as Central Utilities Atomic Power Associates, these utilities will share in the research and development costs: Northern States Power Co., Central Electric and Gas Co., Interstate Power Co., Iowa Power and Light Co., Iowa Southern Utilities Co., Madison Gas and Electric Co., Mississippi Valley Public Service Co., Northwestern Public Service Co., Ottertail Power Co., St. Joseph Light and Power Co., Wisconsin Public Service Corp.

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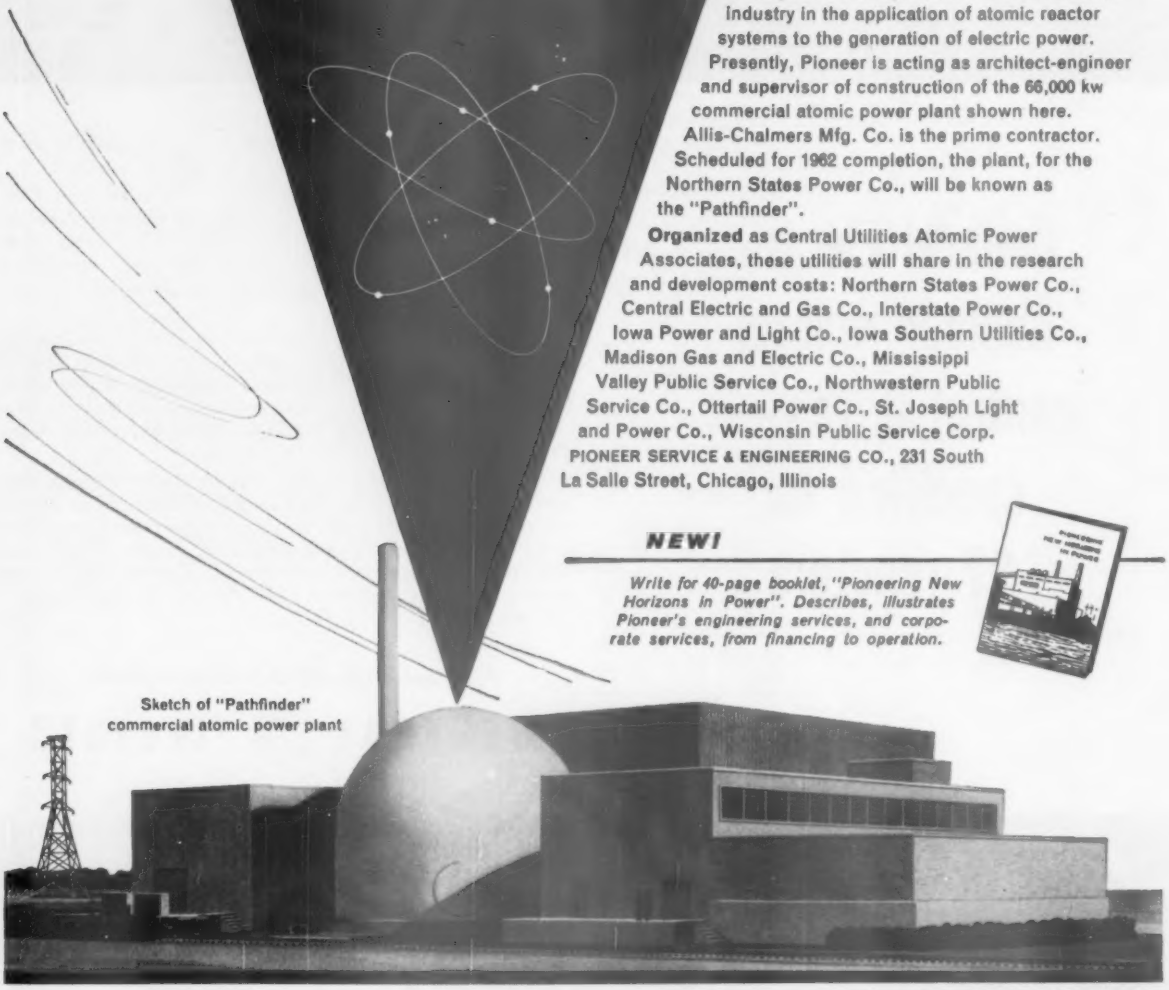

Sketch of "Pathfinder" commercial atomic power plant

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CASE HISTORY

ARGONNE NATIONAL LABORATORY

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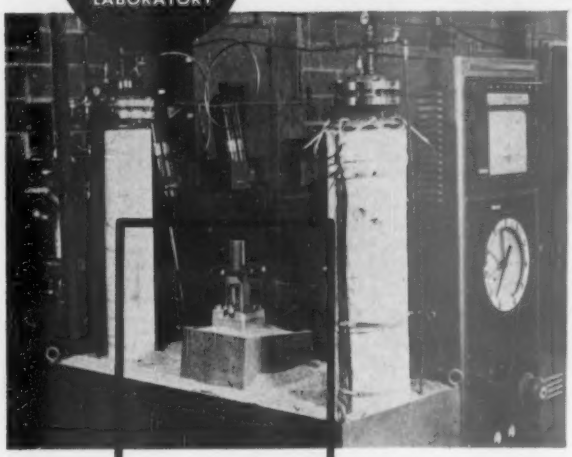
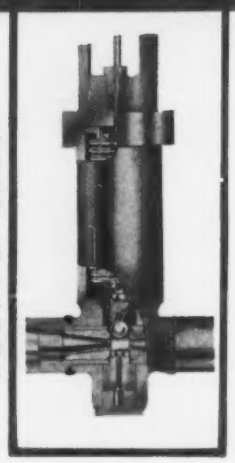


P-K Paul Liquid Metal Valve in test loop under maximum temperature and pressure conditions at Argonne National Laboratory test site.



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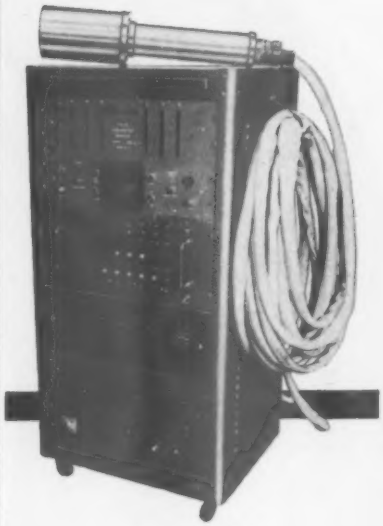

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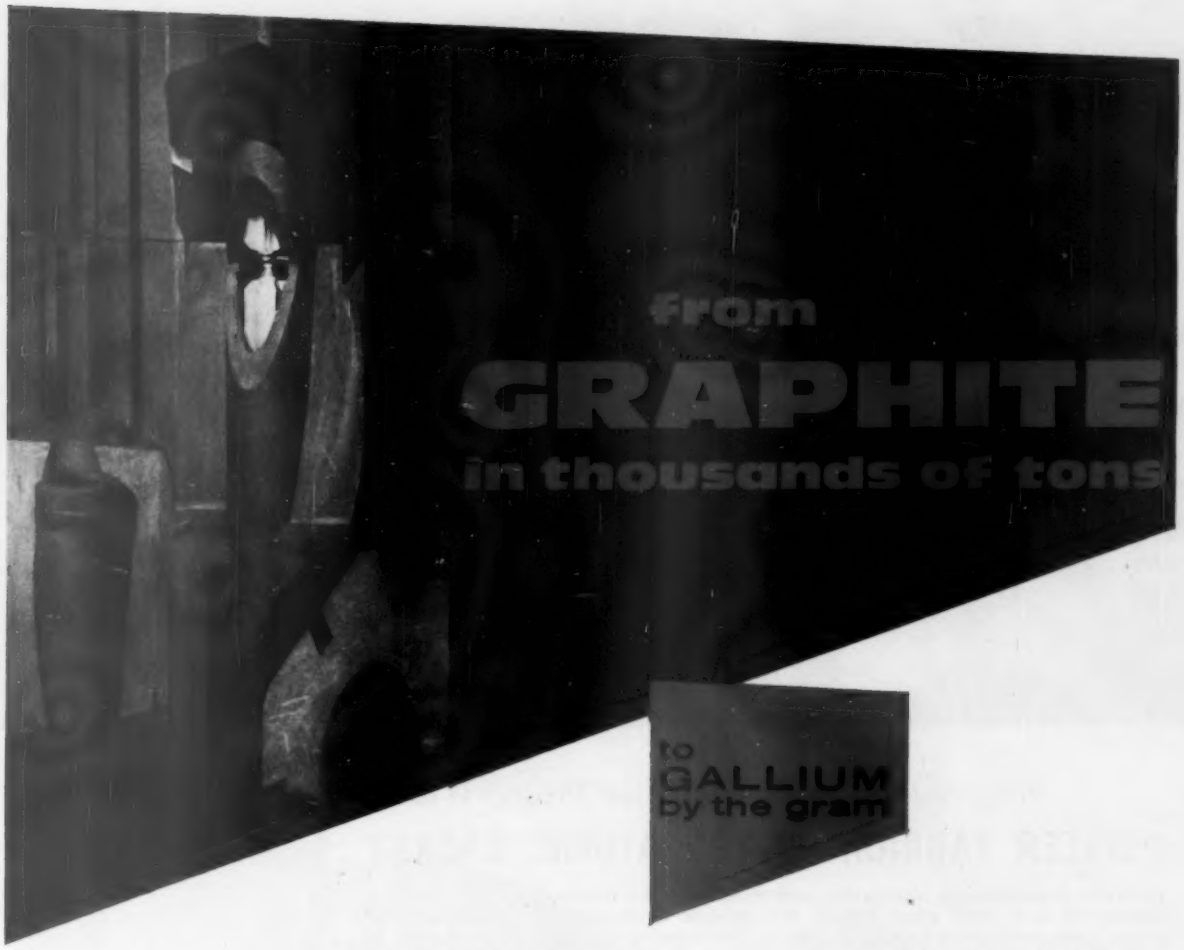

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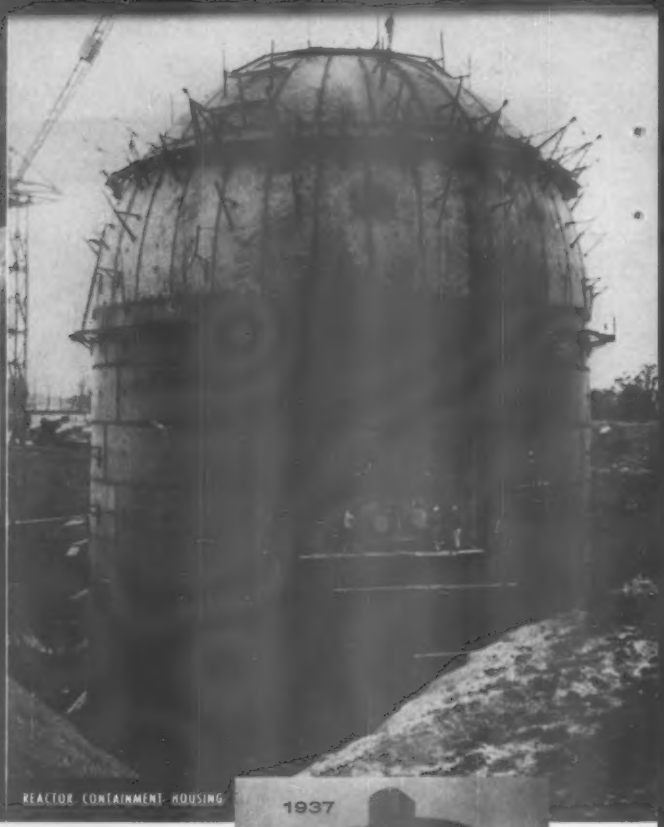

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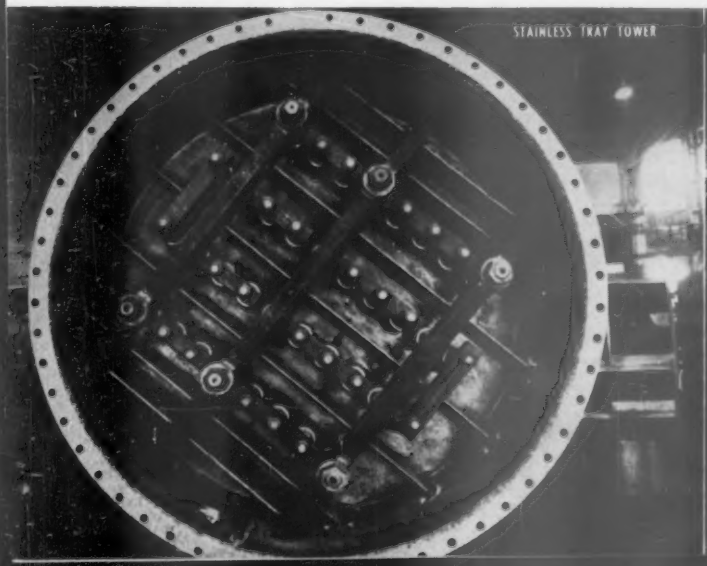

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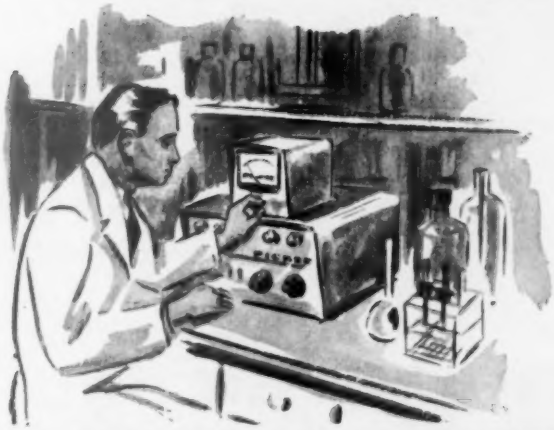

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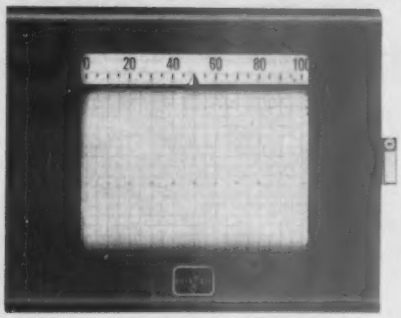
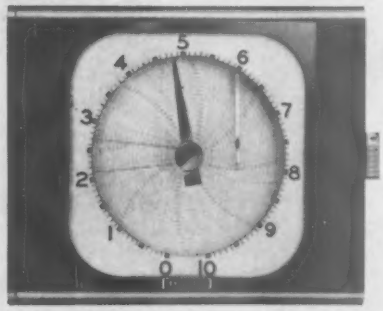
N. Multi-bank recorder—will accept up to 200 separate inputs and record them on 12-inch wide strip chart.
O. Relay-rack mounting models—most models available in case that fits standard 19" relay-rack without modification to instrument or rack, without panel-cutting or masking.

Bristol Dynamaster Potentiometer and Bridge Instruments can be equipped with analog-to-digital encoders of various types for digital readout and computer use. For complete details, write for Bulletins P1245A, P1270, P1271, P1242, and P1282. The Bristol Company, 147 Bristol Road, Waterbury 20, Conn.

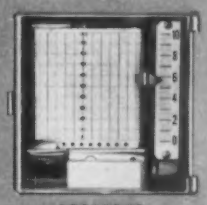
*T. M. Reg. U.S. Pat. Off.



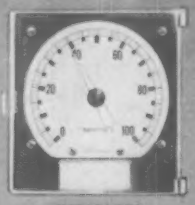
Dynamaster* Electronic Potentiometer or Bridge—records on 11-inch, 120-foot-long strip chart.



Dynamaster* Electronic Potentiometer or Bridge—records on 12-inch round chart, indicates on extra-large scale.



RECORDER



INDICATOR

Plug-in Miniature Electronic Dynamaster Potentiometer and Bridge Instruments—Only 5" x 5⅛" panel dimensions; ideal for graphic panel instrumentation.

BRISTOL
TRAIL-BLAZERS IN PROCESS AUTOMATION

AUTOMATIC CONTROLLING, RECORDING AND TELEMETERING INSTRUMENTS

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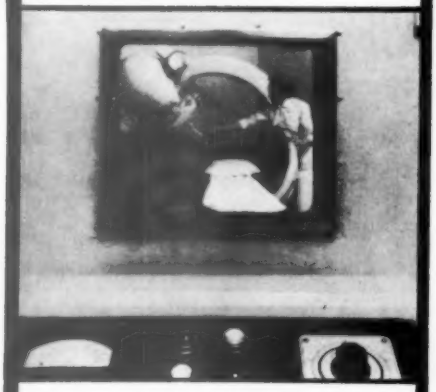
LEAD GLASS VIEWING WINDOWS

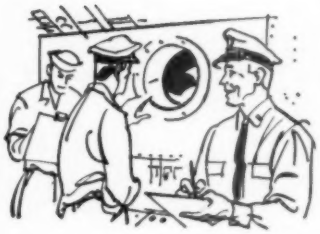
by PENBERTHY



FOR ATOMIC RESEARCH

Penberthy has installations in research centers throughout the world—including nine BIG windows at Nevada Test Site for viewing maintenance and disassembly operations on nuclear rocket project ROVER.

FOR NAVAL REACTORS



Penberthy has built the lead glass windows for viewing the reactor compartments of the nuclear submarines Seawolf and Tullibee and many others under construction . . . and is currently manufacturing glass for windows to be used in other types of nuclear ships.

FOR HOSPITAL THERAPY

Penberthy has more lead glass viewing windows for x-ray and cobalt therapy rooms in use throughout the world than those of all other manufacturers combined!

Penberthy also manufactures many other technical glasses for radio-krypton signal devices, missile-skin ports, x-ray tubes and dosimeters.

Reg. U. S. Pat. Off.

ORIGINATORS OF HEAVY LEAD GLASS

PENBERTHY INSTRUMENT CO.

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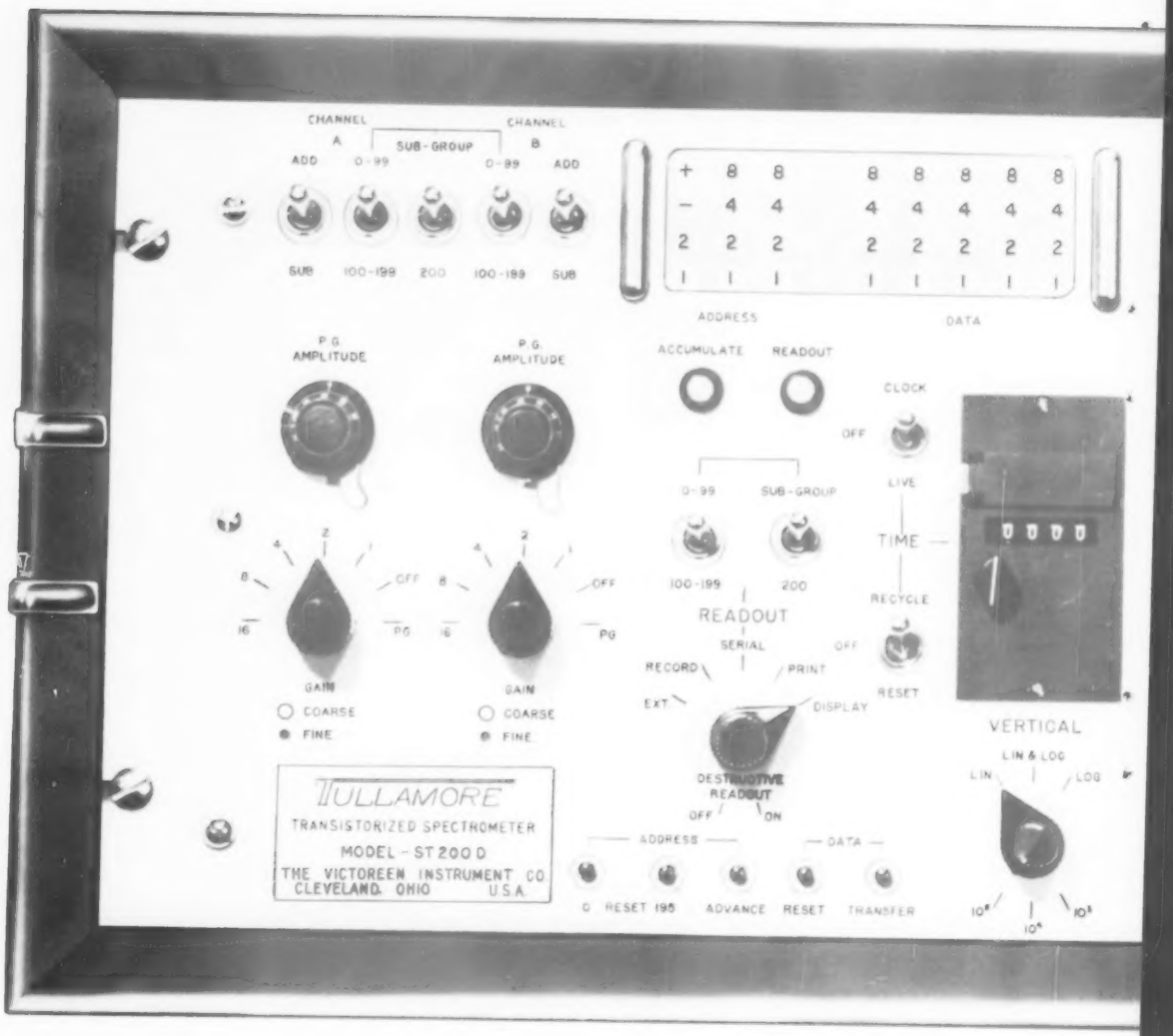
CHANNEL A
SUB-GROUP
CHANNEL B
ADD
0-99
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ADD
SUB
100-199
200
100-199
SUB
ADDRESS
DATA
P.G. AMPLITUDE
P.G. AMPLITUDE
ACCUMULATE
READOUT
CLOCK
OFF
LIVE
0-99
SUB-GROUP
TIME
100-199
200
RECYCLE
READOUT
SERIAL
OFF
RECORD
PRINT
RESET
EXT
DISPLAY
GAIN
COARSE
FINE
GAIN
COARSE
FINE
VERTICAL
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ADDRESS
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0
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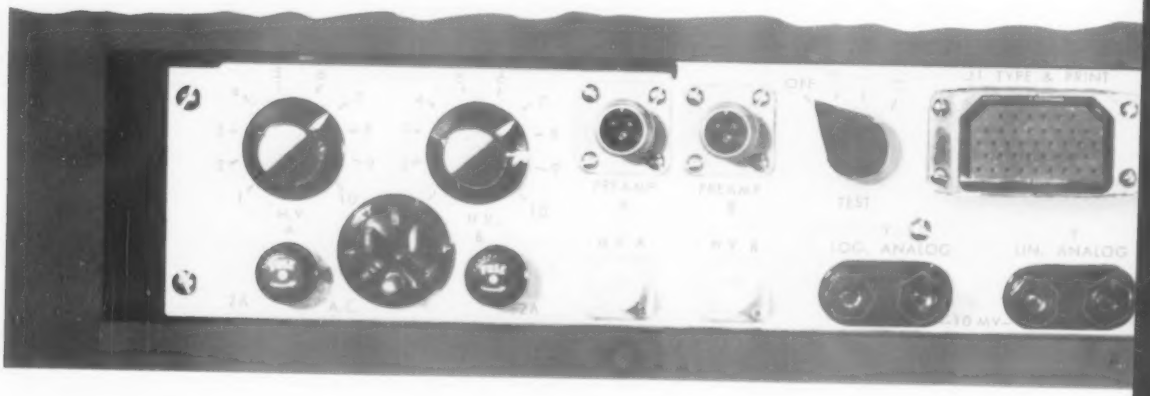
TULLAMORE
TRANSISTORIZED SPECTROMETER
MODEL - ST 200 D
THE VICTOREEN INSTRUMENT CO
CLEVELAND, OHIO U.S.A.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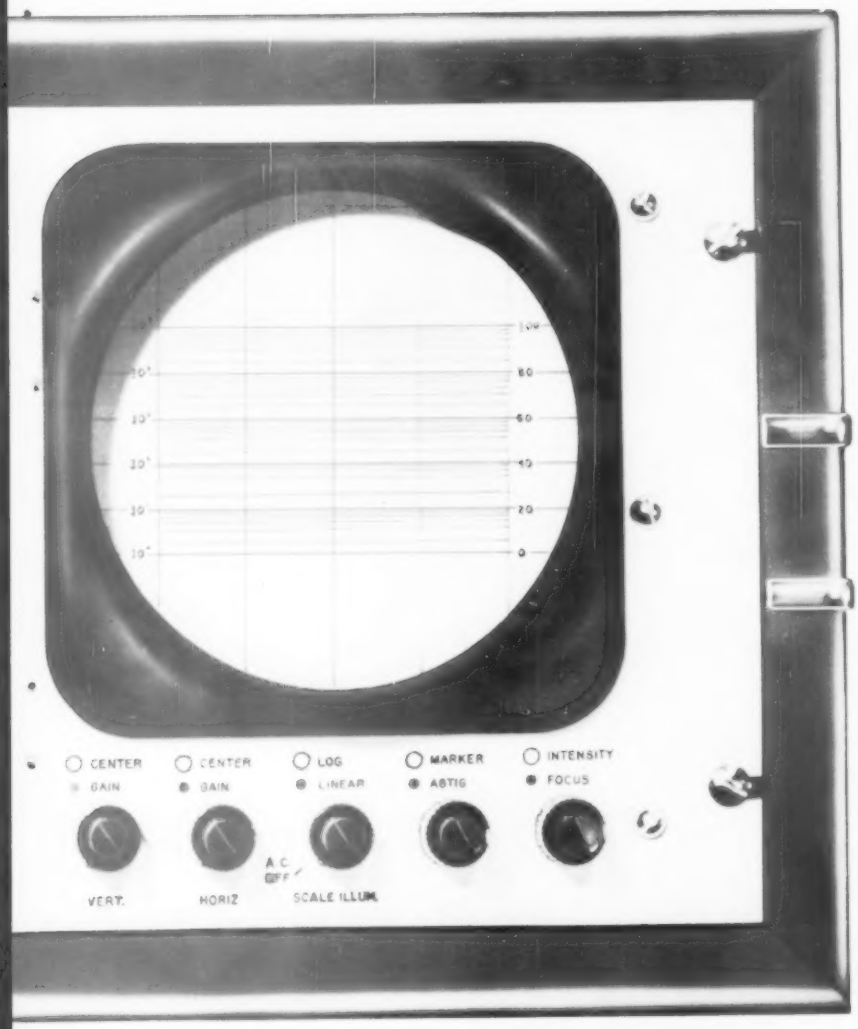
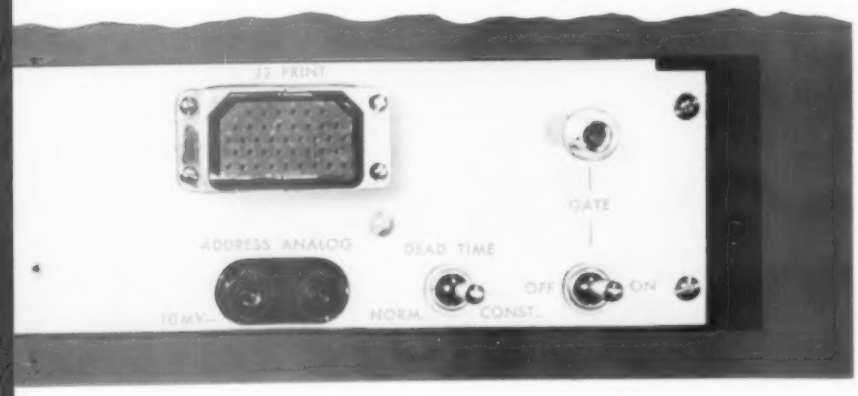
LOG. ANALOG
LIN. ANALOG

VICTOREEN





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ameray

NUCLEAR SHIELDING PRODUCTS AND HANDLING DEVICES

Blocks, High Density Concrete
Bricks — Lead or Glass
Castings and Mechanical Shielding Components
Containers
Crane, Remote Control Electrically Operated Rectilinear
Decontamination Chambers
Doors, Concrete Shielding
Doors, Lead, (Steel Clad)
Electric Door Operators
Fume Hoods, Lead Lined
Glass, Radiation Shielding
Glove Box
Hot Cells
Interlock System
Mirrors, Viewing
Partitions, Portable Lead
Plugs
Rooms, Iron Shielded
Shields, Lead, for Glove Box
Shields, Universal, for Scintillation Detector
Tongs
Transfer Drawers
Transfer Wheels
Vaults, Storage and Isotope Safes
Wells, Storage
Windows

Our engineering department welcomes the opportunity to thoroughly study and prepare recommendations for any nuclear shielding application

Fuel Element Shipping Containers . . .

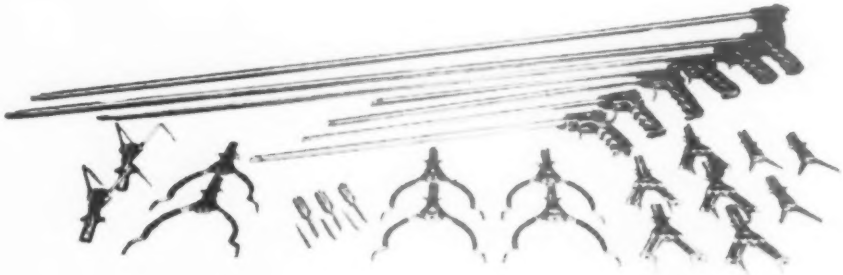
are made in various sizes to accommodate a desired number of fuel elements of common types, such as MTR. All containers comply with applicable regulations of the AEC and ICC.

Lead-Lined Fume Hoods . . .

As a substantial aid to safe handling of all types of radioactive substances, the Ameray lead-lined fume hood is constructed with a sturdy steel frame and stainless steel interior and exterior facings.

Protective Lead and Lead Glass Bricks and Concrete Blocks . . .

for constructing portable barriers or permanent shielding enclosures . . . in sizes, shapes, densities and materials to your specifications.



Remote Handling Tongs . . .

Ameray remote handling tongs can be used in conjunction with ball joints, mounted in temporary lead-brick shields and lead-lined hoods or may be used independent of ball joints as hand tongs. They are the most economical handling equipment for use in Hot Laboratories, lead brick structures and junior caves.

SEND ON COMPANY LETTERHEAD FOR YOUR COPY OF AMERAY'S NEW 76-PAGE CATALOG ON NUCLEAR SHIELDING PRODUCTS AND HANDLING DEVICES.

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FOXCROFT 6-4100
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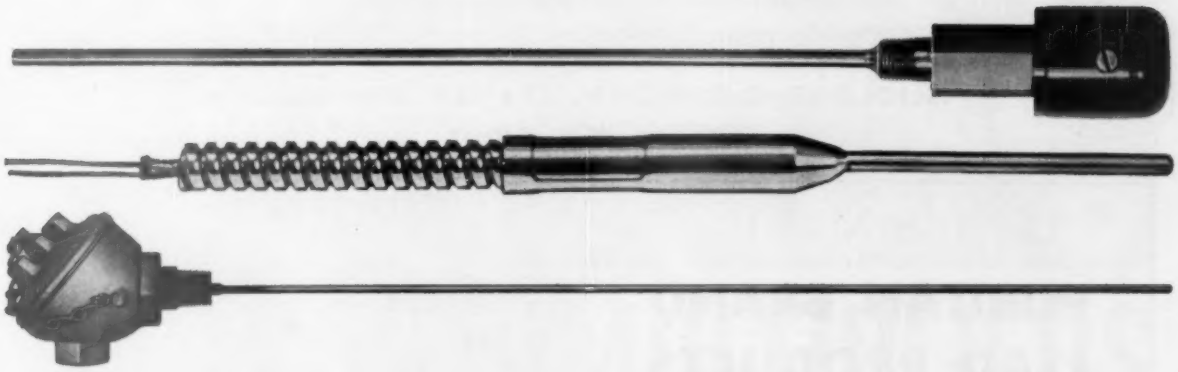
Spherical and Elliptical Shipping and Storage Containers . . .

provide economical shielding for small amounts of CO^{60} or other isotopes. All containers can be used for irradiation purposes by adding an adapter to expose the source from the cask . . . meet ICC and AEC requirements.

CHOOSE FROM 150,000 STANDARD *MegopaK* SMALL-DIAMETER THERMOCOUPLES



If you've been looking for small-diameter, flexible thermocouples with high speed of response, search no more. You'll find exactly what you need in Honeywell's *MegopaK** line.

MegopaK is a combination of thermocouple wires, mineral insulation and a protecting sheath, compacted into a solid mass with a diameter as small as 1/16". You can get *MegopaK* in standard lengths up to 25 feet, and in lengths up to 50 feet on special order. They're available with copper-constantan, iron-constantan and *Chromel-Alumel*** calibration. In all, there are more than 150,000 standard combinations of materials and fittings. These top-quality thermocouples are supplied in bulk, and as elements with wires welded into a measuring junction, or as complete assemblies.

*Trademark, Minneapolis-Honeywell Reg. Co.

**Trademark, Hoskins Mfg. Co.

MegopaK assemblies come complete with terminations (heads, plugs, etc.) and mounting attachments. Also available are special configurations, tests, material and calibration certifications.

MegopaK thermocouples and other pyrometer supplies are stocked at our Los Angeles and Dallas depots as well as in Philadelphia to give you the fastest possible service anywhere in the country.

Check with your nearby Honeywell field engineer for complete details, or write for Catalog G100-4.

MINNEAPOLIS-HONEYWELL, Wayne and Windrim Avenues, Philadelphia 44, Pa. —In Canada, Honeywell Controls, Ltd., Toronto 17, Ontario.

Honeywell

First in Control

SINCE 1885

75th YEAR — PIONEERING THE FUTURE

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from any angle...

NUCOR'S CS-40A "CUTIE PIE" IS THE BEST GAMMA SURVEY METER

and here's why!

- **TRANSISTORIZATION** insures trouble free operation and requires a battery complement of only one readily obtainable mercury cell providing an operational life in excess of 150 hours.
- **EXTREMELY WIDE RANGE** allows measurements at the personnel exposure level and in the "R" range

  Ranges: 0 - 5 mr/hour full scale
  0 - 50 mr/hour full scale
  0 - 500 mr/hour full scale
  0 - 5 R/hour full scale
  0 - 50 R/hour full scale
- **ENERGY RESPONSE** is flat over the range of 30 Kev. to 2 Mev. and permits X-ray and Gamma measurements of all types.
- **ZERO CONTROL** enables the instrument to be zeroed while in a radiation field.
- **HUMIDITY RESISTANT** operation is obtained by means of a desiccated, moisture tight electronic compartment.

Point for point, any way you look at it the new CS-40A is a must for any laboratory.

Complete specifications and prices available from the Technical Services Department.

Instrument & Research Division

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NUCLEAR CORPORATION OF AMERICA

DENVILLE, NEW JERSEY

"LEAD SINCE 1880"

PURITAN BRAND LEAD PRODUCTS

NucLead

(certified 99.99+ pure lead)

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RADIATION SHIELDING

Lead Bricks—Casks—Sheets
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ULTRA LOW-LEVEL BETA COUNTER

Sample Detector
Choice of up to 4 gas flow geiger detectors of plastic and copper with diameters of up to 3 inches

Counter Characteristics
Background 0.4 cpm for the 1¼" diameter, operating at 1050 v. with a 150 v. plateau

Shielding
One gas flow guard detector mounted above each sample detector. Unit surrounded by 4" lead lined with copper

Electronics
Printed card plug-in units using transistors and solid-state diodes for long trouble-free performance. Shielded detectors and electronics mounted in single cabinet 20" x 18" x 37".

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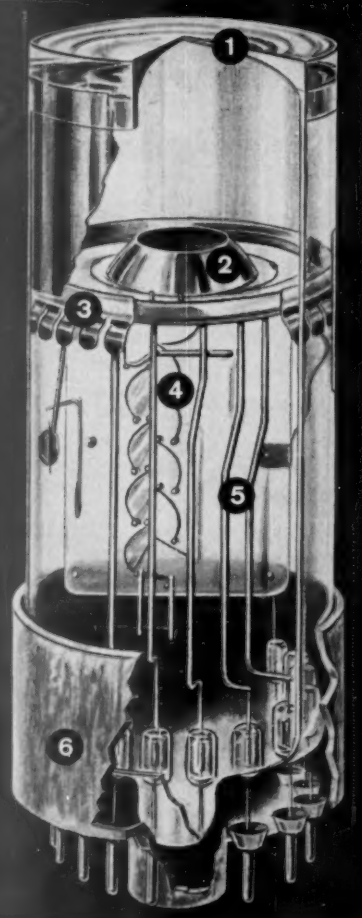

1. PLANO-CONCAVE FACEPLATE
supports spherically shaped cathode for optimum photoelectron collection.

2. DOMED SHIELD
matches curvature of cathode for spherically symmetrical electrostatic field.

3. INCONEL SPRING SUPPORT
assures increased resistance to shock and vibration.

4. LINEAR DYNODE STRUCTURE
is specially designed for fast time response.

5. STURDY LEAD WIRES
result in rugged construction.

6. INTERCHANGEABLE DESIGN
can be substituted directly for many existing photomultiplier types.

NEW PHOTOMULTIPLIERS FROM CBS LABORATORIES

CBS LABORATORIES new line of photomultipliers are specially designed for counting or scanning applications.

Unique photocathode geometry and improved linear dynode structure are combined to provide excellent uniformity of response across the face of the tube and extremely short transit time spread.

The rugged photomultipliers made by CBS LABORATORIES are available as illustrated above in 2", 3" and 5" diameter cathodes with visible (S-11) or infra-red (S-1) response and 10 stages of multiplication; or with quartz windows in 2" and 3" diameters with ultra-violet response (S-13, Rb_2 Te or Cs_2 Te cathodes). Special modifications or entirely new structures can be developed to order.

For technical bulletins describing specific tube types, write to CBS LABORATORIES, Electron Tube Department.

CBS LABORATORIES HIGH RIDGE ROAD, STAMFORD, CONNECTICUT
A DIVISION OF COLUMBIA BROADCASTING SYSTEM, INC.

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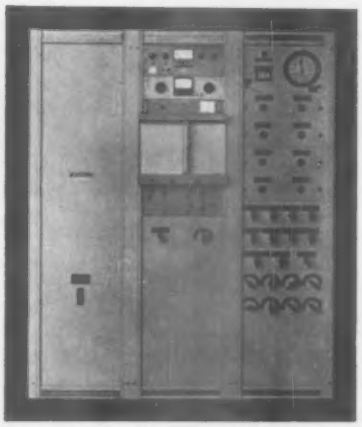
HAVE A REMOTE OPERATING PROBLEM?

Check these four TELEFLEX systems . . . one may be your answer!

If the answer to your specific remote control or operating problem is not shown, contact TELEFLEX for full information on our experience and facilities. We can design and build systems to meet practically any mechanical or electromechanical remote operating problem. Other systems we have developed are Transversing Signal Drives (for transporting instrument measuring elements, counters or electromagnets), Neutron Source Drives (for transporting radiation source from storage container to start-up point) and numerous remote control systems.

For complete information on any of the above systems, send coupon for the "TELEFLEX Nuclear Catalog." For consultation on a specific problem, fill out the application in the coupon and a representative will call.



Flux Mapping System—gathers in-core data with unlimited accessibility to core. A scanning system, measurements can be made throughout entire length of core, at any time . . . even at full reactor power. Positioning maintained at accuracy to ± ¼", repeatedly.

TELEFLEX®
INCORPORATED, NORTH WALES, PENNSYLVANIA

Control Rod Drive—a small, compact system, lower in cost than ordinary drives, accurate and reliable. Both scramming and regulating types available for swimming pool or pressure-vessel reactors. A proved system, now in operation on three reactors.

Charge Seating Mechanism—speeds job of seating charge cylinders of U-238 in graphite core. Develops thrust of 1000 pounds. Moves cylinder at rate of 80 feet/minute. Operator can seat charges within a minute, saving many hours a day. Maximum operator safety.

Remote Valve Operators—for operation of any mechanically actuated device, such as shutters, beam-port plugs, butterfly valves. Operates accurately to 150 feet or more, in high flux, high temperature areas. Provides ample power in both directions of valve travel.

☐ Please send "TELEFLEX Nuclear Catalog"

☐ Please have representative call. My specific application is_____

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NOW...
STANDARD NEUTRON DETECTION FOILS

Standard Neutron Detection Foils for comparing radiation-effects studies have been developed by Aerojet-General Nucleonics. Because results are only as satisfactory as the neutron spectral data on which they are based, standardization of neutron detection foils is a major contribution to nuclear technology. With Aerojet standardized foils, it is possible to make neutron spectral determinations with an absolute accuracy of ± 3.2% and a reproducibility of 1%. Studies using various reactor systems or other neutron generators can now be accurately correlated.

FOILS	ENERGY MEASUREMENT INTERVAL
Gold	Thermal
Indium	Thermal 1.45 ev (Resonance)
Cobalt	120 ev (Resonance)
Plutonium	1 kev and above
Uranium	1.45 mev and above
Sulfur	2.4 mev and above 6.1 mev and above
Sulfur-Graphite	2.4 mev and above 6.1 mev and above
Aluminum	Thermal 9.1 kev (Resonance) 5.3 mev and above 8.6 mev and above

FOIL ACCESSORIES

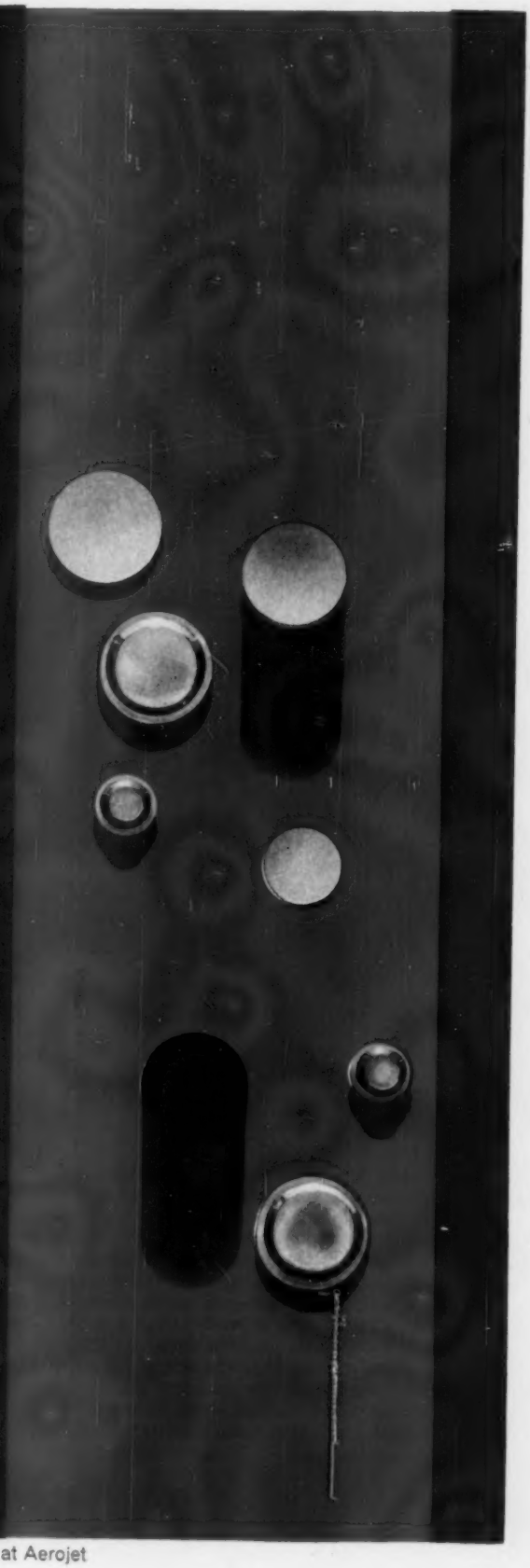
A boron-10 shield protects the fissile foils from thermal neutrons during irradiation. Cadmium covers are available for use with the gold and cobalt foils for determining the cadmium ratio. These accessories, together with a high precision scintillation counting system, calibrated standard foils of gold-198, cobalt-60, phosphorus-32, sodium-24, and calibrated cesium-137 sources, are available to purchasers of individual items or complete foil sets.

Write for complete catalog.

Aerojet-General Nucleonics
San Ramon, California

Aerojet-General®
CORPORATION

A SUBSIDIARY OF THE GENERAL TIRE AND RUBBER COMPANY



Engineers, scientists—investigate outstanding opportunities at Aerojet

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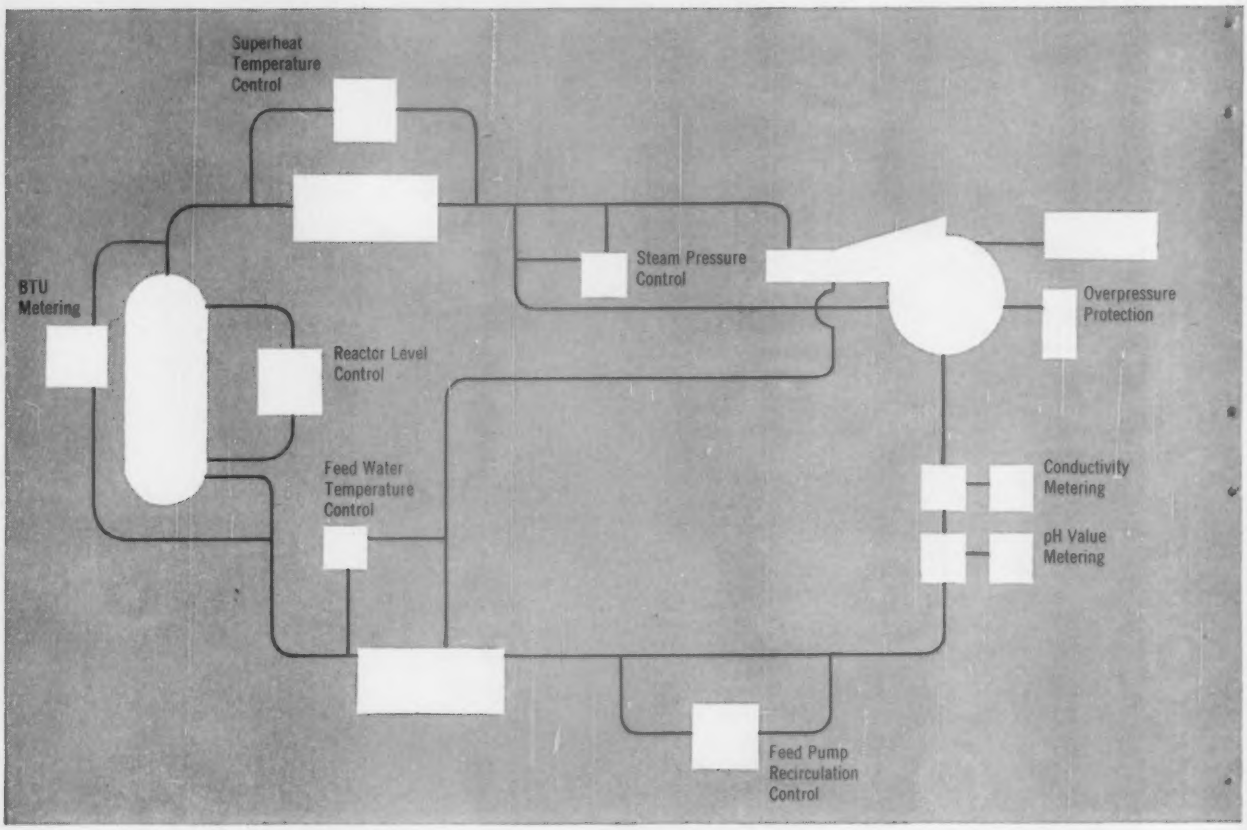
HAGAN REPORTS ON...

CONTROL SYSTEMS FOR ATOMIC



Hagan equipment applicable in nuclear plant control includes electronic, pneumatic, and hydraulic control components as well as Hagan Data Processing systems. Here are some of the applications of Hagan controls to nuclear projects: Temperature measurement for the sodium purification loop on an experimental nuclear reactor . . . mass flow metering on a gas-cooled reactor loop . . . condenser protection relief system on a reactor power plant . . . steam pressure control system for first nuclear powered commercial vessel . . . feed pump recirculation control on the secondary steam system of both pressurized water and boiling water reactors . . . steam temperature controls on a separately fired superheater.

Hagan's PowrMag control systems offer high accuracy and long, maintenance-free life combined with the kind of reliability demanded by industrial and nuclear applications. Solid-state electronic (magnetic amplifier)—the system delivers a 1-9vDC signal with a power consumption of only 3 watts per unit. Compact—controllers are only 5¼" x 5¼", remote control stations 2¼" x 5¼"—PowrMag units conserve panel space. Extremely flexible—one basic controller can perform all control functions—control mode is changed by adding reset or rate packages.

For more information on Hagan equipment in the atomic power area, write or phone NUCLEAR POWER DIVISION, Room 808, Hagan Center, Pittsburgh 30, Pa.

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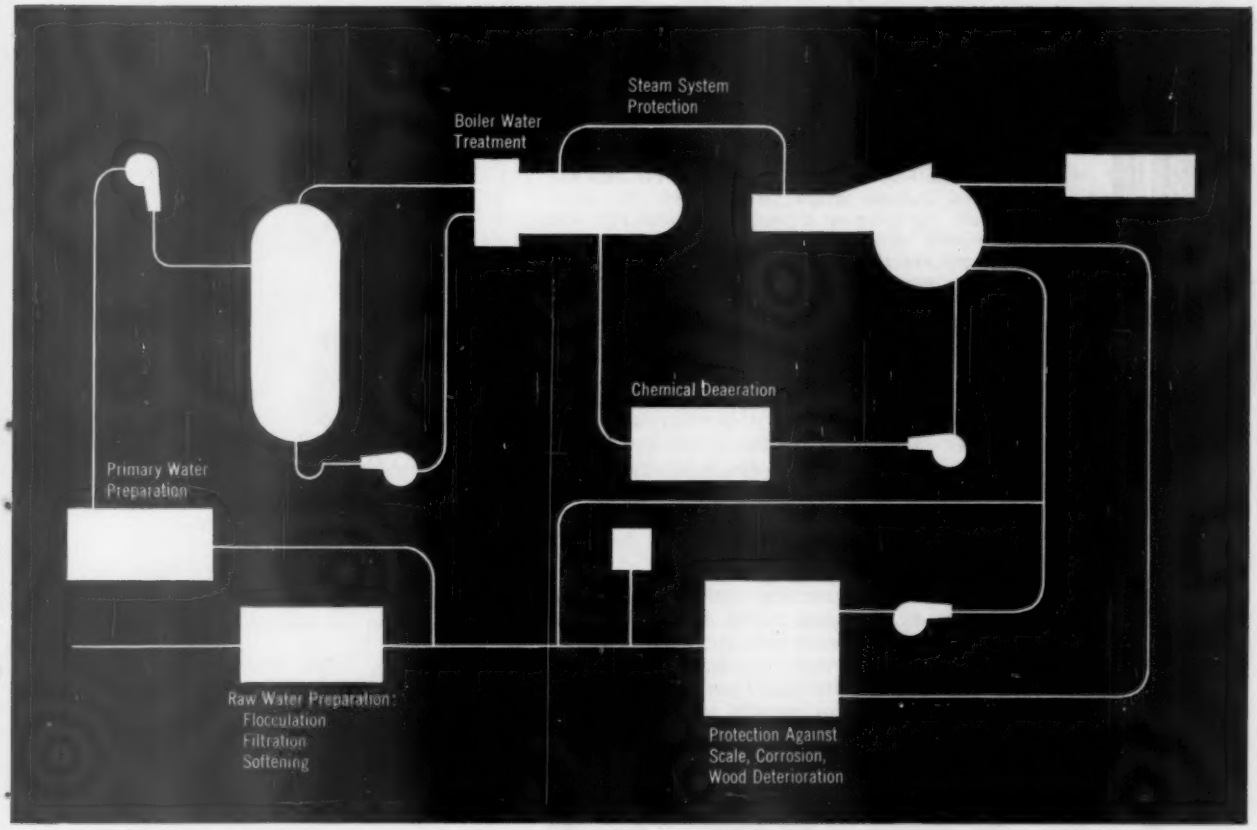
WATER TREATMENT POWER PLANTS



Research and testing laboratories, plus a vast fund of day-to-day experience with industrial water problems of all kinds, are the resources that Hall Laboratories bring to bear on nuclear water treatment problems. From procurement on through use and disposal, Hall is well equipped to deal with the special problems that arise in atomic power plants. Here are a few of the projects in which Hall's ability to make water behave predictably has served the nuclear field: consultation on water treatment for pressurized-water and homogeneous reactors . . . materials specification and water treatment for an electron accelerator cooling system . . . steam quality tests on nuclear submarines.

The specialized chemical experience of the Calgon Company, another Hagan division, is also available to aid in specific water problems such as corrosion, deposition, scale removing, and cleaning.

For information on how Hall Laboratories can serve you, write or phone NUCLEAR POWER DIVISION, Room 808, Hagan Center, Pittsburgh 30, Pa.

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CHEMICALS & CONTROLS, INC.
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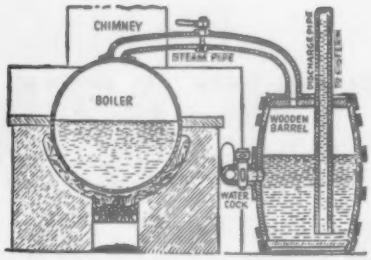

AN ENGINEERING FRONTIER IN 1663...

. . . was finding ways to utilize steam power. In that year, for example, the Marquis of Worcester is credited with inventing the ingenious "steam water lift" shown here. Steam from the boiler passed through a pipe into a wooden barrel. Steam was condensed in the barrel, creating a partial vacuum, which caused water below to rise into the barrel when the water cock was open. When the cock was closed and the steam valve opened, the steam forced the water up through a discharge pipe into a cistern above. It was through trial and error designs like this that the art of steam power generation was first introduced.

AN ENGINEERING FRONTIER IN 1960...

. . . is the development of commercial nuclear power utilizing such modern reactors as the Combustion Engineering design illustrated. Nuclear reactor systems capable of generating economical steam power for commercial use have long been an engineering goal in the American power industry.

Combustion Engineering, recognized internationally as a pioneer in the fast-moving technology of steam power generation, has developed in its Nuclear Division the engineering capability necessary to the successful pursuit of this goal. All of the elements essential to the design and development of well-balanced, high-performance reactor systems are under constant investigation by individuals skilled in the fields of engineering, physics, metallurgy, ceramics and chemistry. Staff positions are now available to individuals qualified in these disciplines.

During 1959, more than 30 large C-E steam generating units with a total capacity of over 5 million kilowatts were installed in utility power stations in this country and abroad. The generation of commercial nuclear power is a natural extension of our product line.

Address inquires to:
Mr. R. N. Killelea, Manager,
Professional Recruiting, Nuclear Division,
Combustion Engineering, Inc.,
Windsor, Connecticut

NUCLEAR DIVISION

COMBUSTION ENGINEERING, INC.

NEW! Cambridge ABSOLUTE® Filter Vacuum Cleaner

Safely Handles Sub-Micron Radioactive and Toxic Dust

This new portable vacuum cleaner is equipped with a Cambridge ABSOLUTE Filter individually tested for a minimum efficiency of 99.97% on 0.3 micron particles and specially designed to permit its easy removal and replacement.

Air is prefiltered through a high-efficiency Dacron bag on a special frame assembly which holds the bag in full-open position during operation and provides for safe removal without collapsing and redistributing collected dust. The collection tank has a recoverable capacity of 1⅔ bushels of dry material and, when used for liquid collection, the liquid level can be checked visually, easily and quickly. Tank is quickly released for emptying and cleaning.

Exhaust air is deflected gently upward and outward around the entire perimeter so as not to disturb uncleaned areas. Heavy-duty 1-hp. motor and triple-turbine blower located in the clean-air side of the ABSOLUTE filter provides a flow rate of 154 c.f.m., free-air capacity. *Turbo-vacuum head is available for blowing fully filtered air.*

Take advantage of the economy and convenience of unitary vacuum operation in areas heretofore limited to central-system operation. Write for full information.

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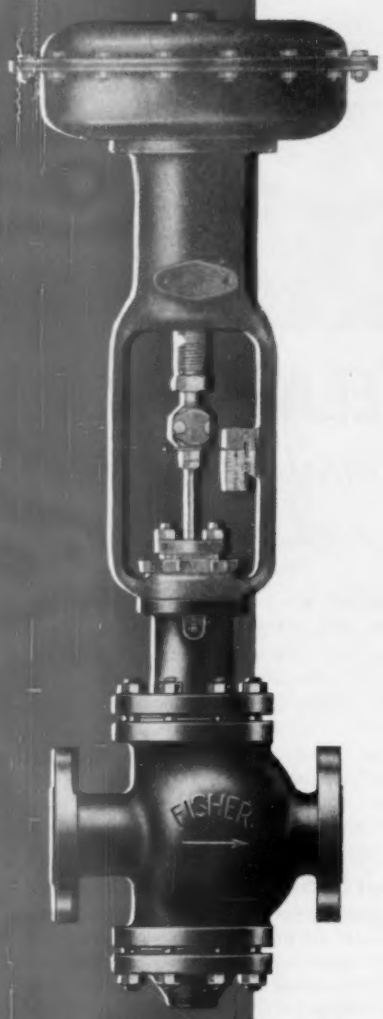

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Nodular Cast Iron has higher yield strength than steel. When overpressured, a Nodular Cast Iron valve will continue to operate satisfactorily without distortion, at a higher pressure, than a similar steel valve.

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Effective in temperature ranges of -20° F. to +650° F. and pressures up to 1,000 psi. Shock or impact characteristics are comparable to steel. Has more resistance to scaling in air at high temperatures than ordinary cast iron or plain carbon steel.

Would you like more information about this alloy?

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NCL VALVE BODY SPECIFICATIONS

Body Styles—Double or single port globe bodies.
Body Sizes—½ through 12".
End Connections—Screwed, ASA raised face or RTJ 150 to 600 psi flanges.
Plug Style—Top and Bottom guided, V-Pup or Throttle Plug.
Pressure-Temperature Ratings—Pressure 80% of corresponding steel flanges at a given temperature with maximum pressure up to 1,000 psi and maximum temperature 650° F.
Minimum Temperature—Minus 20° F.

COMPARISON OF MECHANICAL PROPERTIES

	Cast Iron ASTM A126-B	Nodular Iron ASTM A395	Cast Steel ASTM A216-WCB
Tensile Strength, PSI	31,000 Min.	60,000 Min.	70,000 Min.
Yield Strength, PSI		45,000* Min.	36,000 Min.
Elongation, % in 2" Gage Length	NIL	15	22
Modulus of Elasticity, PSI	12—20x10⁶	24x10⁶	30x10⁶

*.2% Offset

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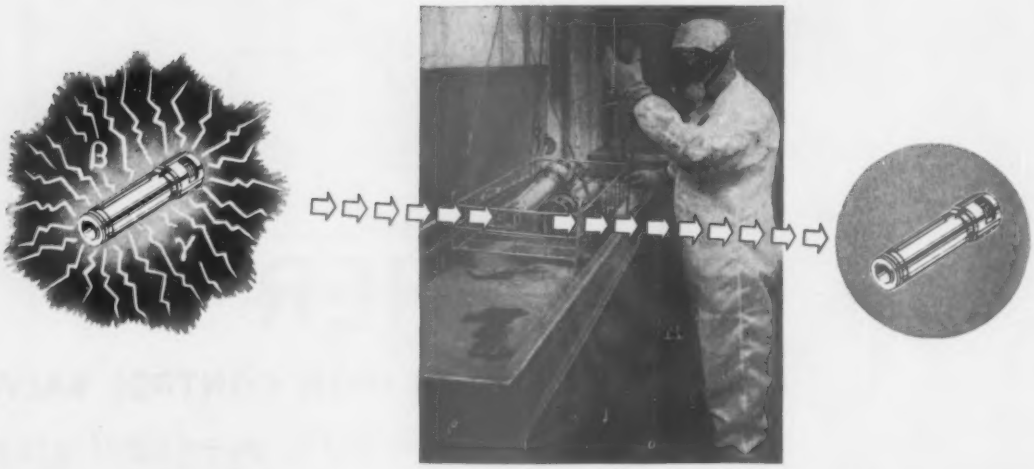

TAPCO OPENS NEW CLEVELAND FACILITY

for commercial decontamination and rework of components and assemblies

The TAPCO Group is now equipped to decontaminate, inspect, rework and test such nuclear reactor components as pumps, pressure vessel heads, control rod drivers, valves, and isotope containers.

The new TAPCO Decontamination Facility, available on a contract basis, covers 4500 square feet of the TAPCO Cleveland plant. This facility includes a 1200 square foot clean room completely enclosed and atmosphere-controlled, with stainless steel work tables, decontamination tanks, a 30 gph demineralizer, and a quarter-ton hoist.

COMPLETELY INSTRUMENTED

An additional 2100 square feet provides space for the disassembly and decontamination of heavy components. A fully-equipped instrumentation room contains radiation standards and all monitoring and survey equipment used by the health physicist. The facility also has locker, change and shower rooms; an independent sewage system including pumps, filters and effluent storage and monitoring tanks; a health physics office; a storage area and a machine shop.

LICENSED AND IN OPERATION

Although the facility is currently licensed by the Atomic Energy Commission to possess up to 500 millicuries of radioactivity at any one time, this limit can be substantially and quickly increased as requirements demand.

TAPCO has already successfully completed the decontamination, inspection and testing of 32 PWR control rod drive mechanisms. This program established efficient work procedures and proved the competence of the trained TAPCO crews.

TECHNIQUES FOR EVERY REQUIREMENT

Decontamination procedures to date include the scrub and soak technique in solutions such as citric acid—diosodium EDTA or alkaline permanganate. Provisions have been made for acid cleaning and the installation of a 10 kw ultrasonic cleaner. Maximum radiation level encountered to date is 900 mr, though the facility is designed for considerably higher levels.

For contract and delivery information on the TAPCO Decontamination Facility, or a conference on TAPCO's abilities to clean and rework your components or assemblies, write on your company letterhead to:

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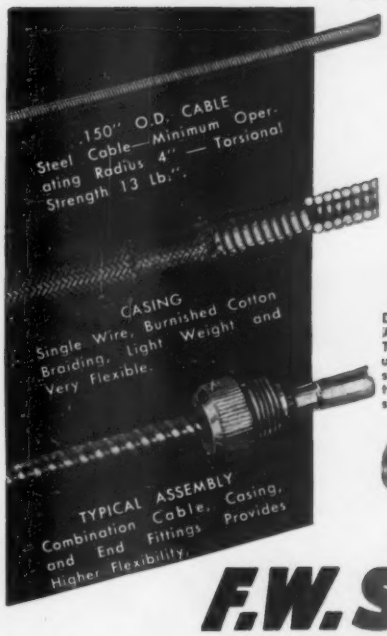

Circle Ess Flexible Shafts offer economical construction and low maintenance costs for remote control applications. Many manufacturers reduced expenditures, and saved space by using flexible shafting to eliminate alignment problems and ALL gearing. For complete information about Circle Ess Flexible Shaft assemblies and our Adapters used with Flexible Shafts write to us on your letterhead.

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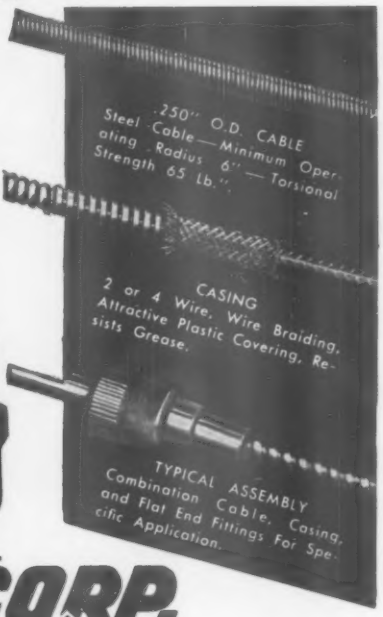
To drive more than one unit from the same power source and to provide two gear ratios from the same power source.

RIGHT ANGLE ADAPTER
To provide a connection or flexible shaft control where space limitations do not permit a conjunction without bending the shaft into too small a radius.



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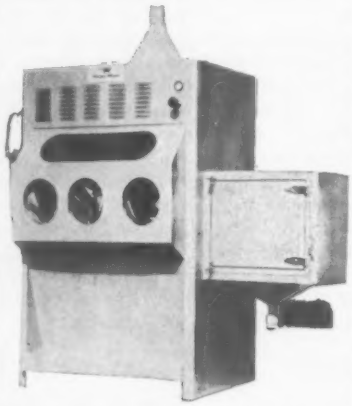

Field tested installations have proven Hydro-Hone's ability to provide hermetically sealed wet/dry blast equipment complete with contamination proof interlock chamber for safe loading and unloading of parts for removal of oxides, heat treat scale, deburring, controlled micro-finish conditioning, etc. Stainless steel disposal cart enables quick, easy removal of contaminated media. Standard contamination proof models are available in four standard sizes.

For expert technical assistance with your metal finishing problems, dial SPruce 3-4982, or write:

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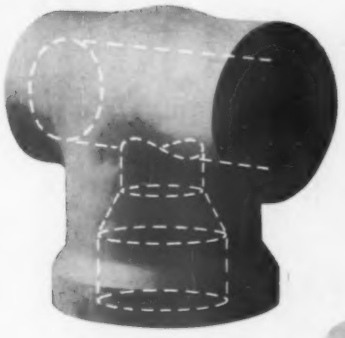
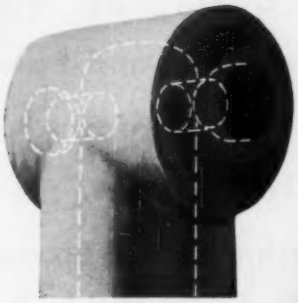
NUCLEAR
FORGINGS





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Highest physical properties, Minimum directional characteristics, Maximum uniformity and density, add up to the *most obtainable* from a given metal. Cameron's unique forging processes make possible forgings of almost any metal attaining optimum properties in larger sizes and more intricate shapes than can be obtained elsewhere. Shown above are Inconel forgings for a 14″ GATE VALVE BODY, 30″ high, 31″ long, weight 2000#. 14″ CHECK VALVE BODY, 26″ high, 32″ long, weight 2480#. PUMP CASE for DIG MAIN COOLANT LOOP, 47″ O.D., 32″ I.D., 35″ high, 51″ long, weight 11,000#. These forgings, requiring the *most from metal*, perform critical duty on nuclear submarines.

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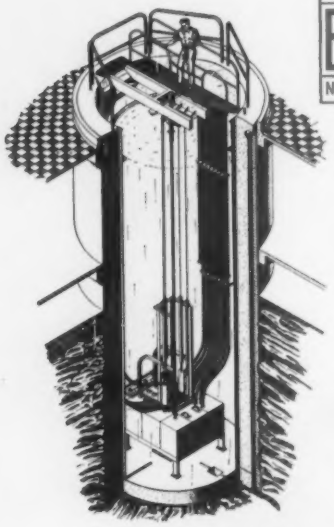

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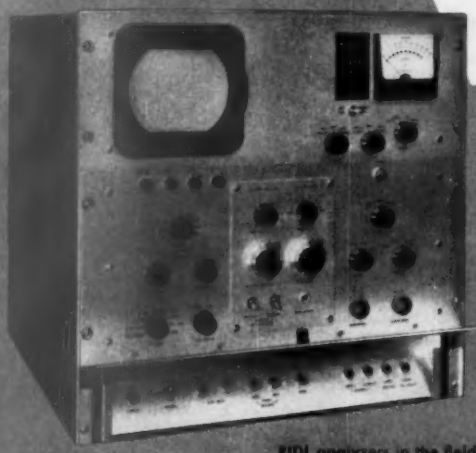

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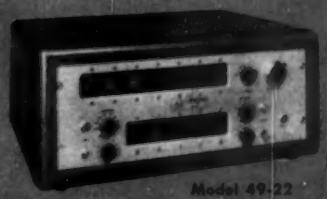

Model 49-22
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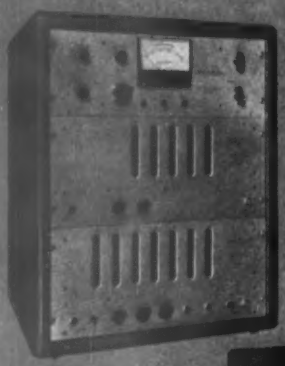

Model 49-4
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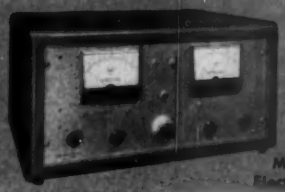

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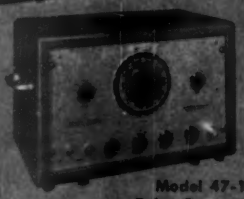

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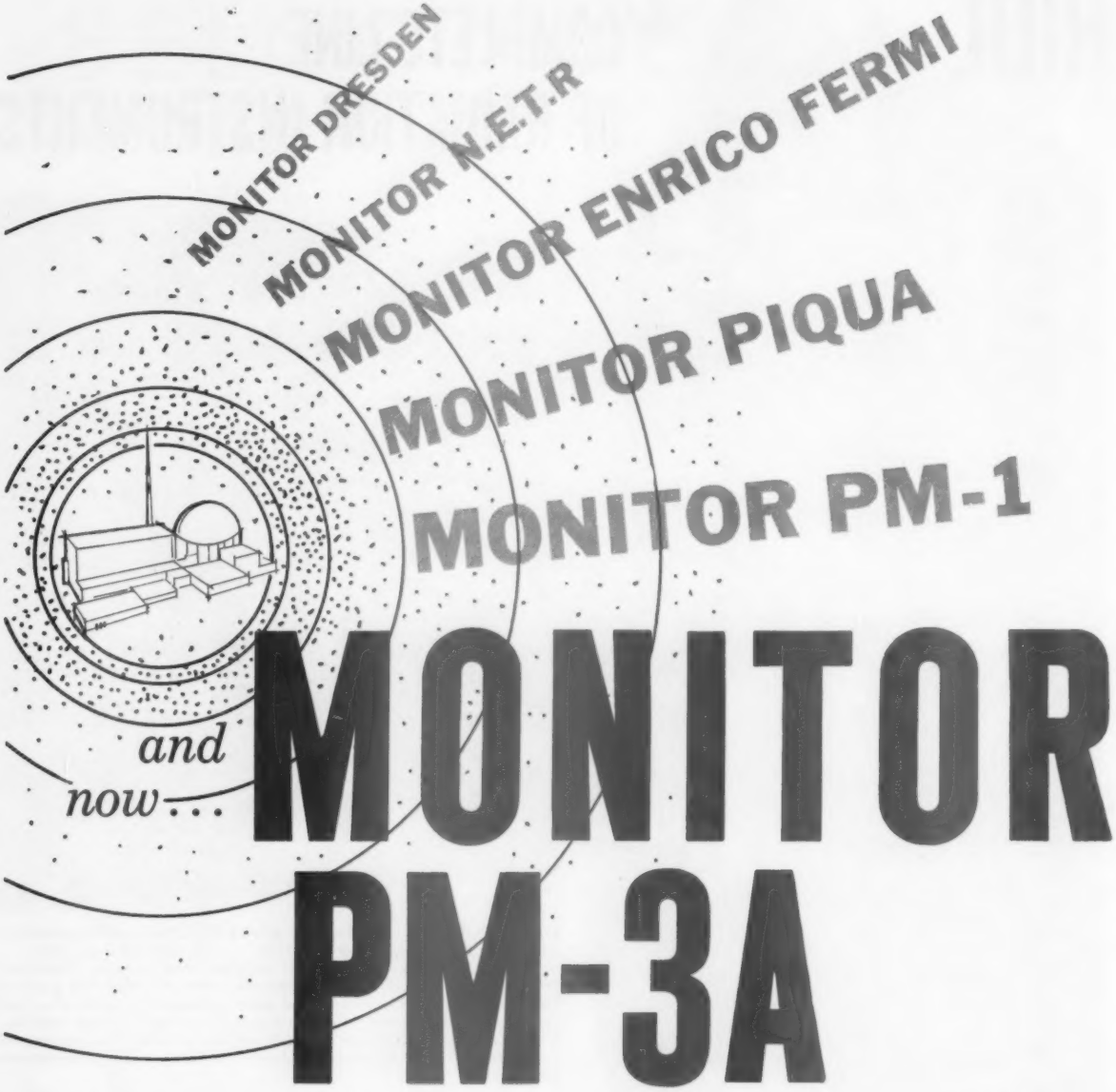

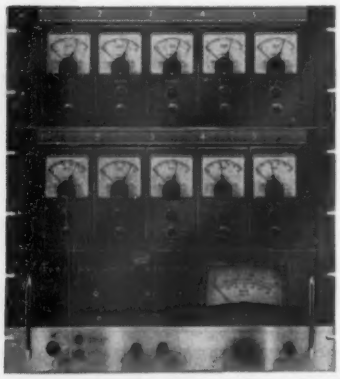

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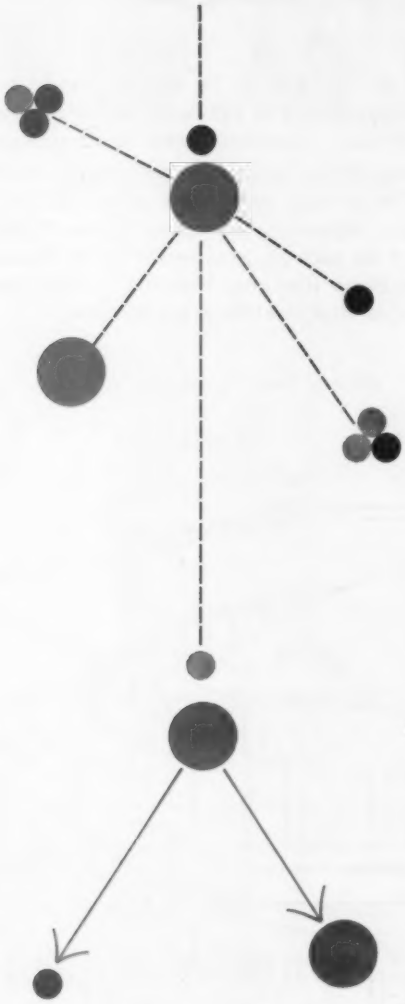

New RCA-7746
Multiplier Phototube with

GUARANTEED PULSE-HEIGHT RESOLUTION UNDER 9%

RCA-7746 is a new 10-stage head-on type multiplier phototube especially suited for application in scintillation counters and in nuclear "time-of-flight" measurements. In addition to its excellent pulse-height resolution, this tube shows very good stability, and is remarkably fast. Its spherical photocathode surface makes possible an extremely small spread in electron transit time.

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RCA-7746 is capable of an essentially linear current amplification of 16,000,000 when operated at a supply voltage of 2,000 volts. Spectral response covers the range from about 3,000 to 6,500 angstroms, with maximum response in the blue region at approximately 4,400 angstroms.

For further information on RCA-7746, or any of RCA's broad line of high quality multiplier phototubes, get in touch with the RCA field office nearest you. If you would like a technical bulletin on RCA-7746, write RCA Commercial Engineering, Section K-31-Q, Harrison, N. J.

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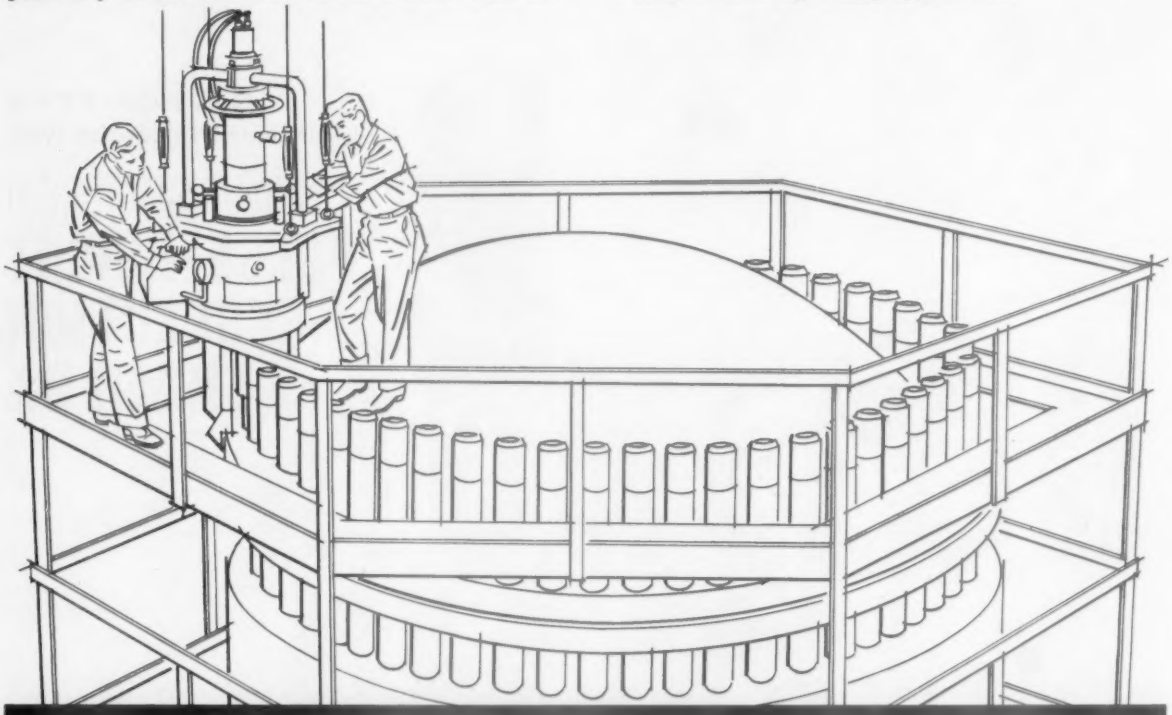
DIAMOND STUD TENSIONER...

was developed to assure faster, more effective tightening of the flanged joint of the reactor pressure vessel. It eliminates the need for slower, more complicated, less accurate and more costly stud heating devices and offers these critical advantages: *Reduced Reactor Downtime* . . . tightens studs up to 6″ in dia. and larger in 5 minutes or less. *Tightest Possible Seal* . . . precise control of stud elongation permits optimum stud loadings. *Increased Stud Life* . . . as no heat is required, possibility of thermal stress is eliminated. Studs are loaded to full capacity by simple straight tension — eliminating seizing or galling . . . no torque used. *Safe, Easy to Use* . . . hydraulic power source integrated into tensioner unit . . . only required power connection is 45 CFM (or less) compressed air at 90-120 PSI. No electrical connection required. *Proven Reliability* . . . selected for such projects as the N. S. Savannah and Indian Point Reactors. *Versatile* . . . ideal for a wide variety of stud tightening applications.



DIAMOND RESEARCH REACTOR DRIVE...

is a safe, durable and compact rod drive for pool-type reactors. Providing precise adjustment and indication of control rod position, Diamond Drives are extremely sturdy yet light enough to be handled by one man. Complete drive mechanism is contained within one continuous tube; has no external projections to cause accidental withdrawals. Get complete details; write for Bulletin 2146.

DIAMOND POWER REACTOR DRIVES, MISCELLANEOUS TOOLS, REACTOR INTERNALS...

were developed to meet specific customer requirements. Included in this group of specialized equipment are magnetic-jack type and rack-and-pinion type drives, fuel element space-and-support plates, and remote grappling tools. In addition, Diamond Electronics offers closed circuit television systems particularly suitable for nuclear applications. OUR ENGINEERING AND MANUFACTURING CAPABILITIES CAN PROVIDE VALUABLE ASSISTANCE IN THE SOLUTION OF SPECIAL DESIGN AND DEVELOPMENT PROBLEMS. CALL, WRITE OR WIRE NUCLEAR PROJECT SUPERVISOR, LANCASTER, OHIO.

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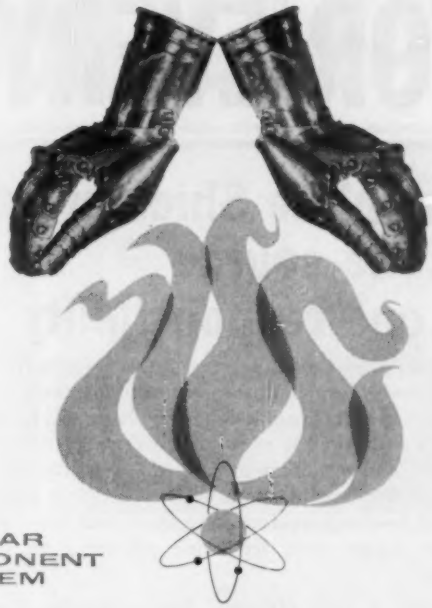

NUCLEAR
COMPONENT
PROBLEM
?

FRI can handle it In its search for new and better methods of handling nuclear fuels, FRI is currently conducting advance-concept investigations of refueling devices and components, control rod drives and couplings, and coolant systems for primary and secondary systems of the reactors. This development work is based on practical field-proven nuclear experience in component development supported by a background of over 25 years in the design, manufacture and testing of fluid handling and mechanical systems. ■ We would appreciate the opportunity of applying our knowledge and capabilities to the development of your nuclear systems. Write or call for consultation.

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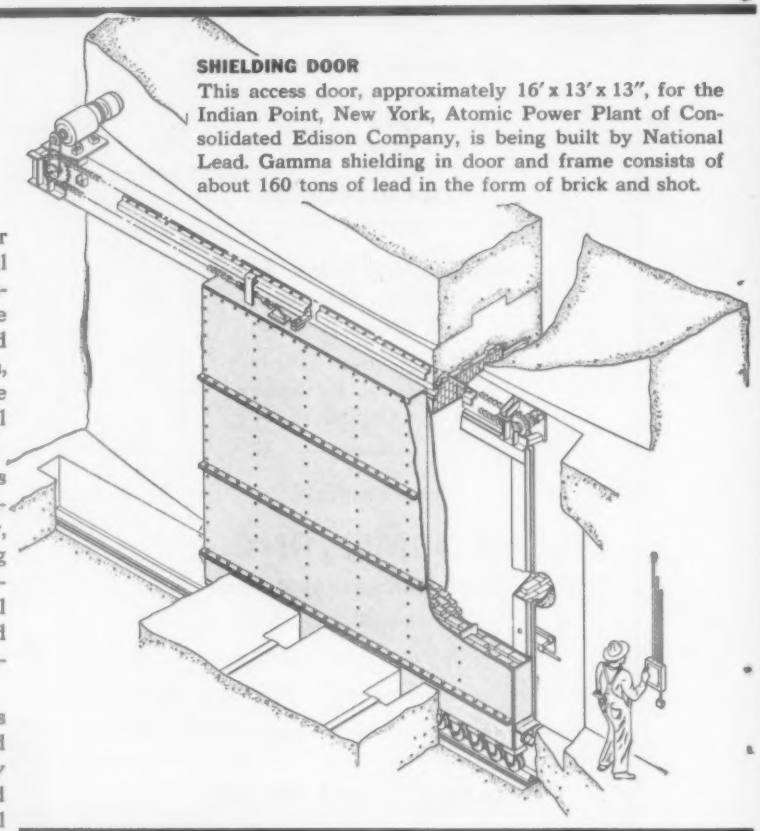
FOR EVERYTHING IN GAMMA

Complete Shieldments ...one source ...one responsibility

As the largest manufacturer of lead products, a major producer of depleted uranium components, a principal source of magnetite and barites, National Lead occupies a truly unique position in this field. Add to these unmatched resources of basic materials an unfettered resourcefulness in their application and fabrication, and it becomes evident why more and more jobs like those shown here are being entrusted to National Lead.

In dealing with National Lead, shielding customers enjoy the confidence arising from working with a company that itself is deeply involved in nuclear energy, with ten years of experience in AEC programs ranging from research and development to production responsibilities, and as a co-owner-operator of Industrial Reactor Laboratories, Plainsboro, New Jersey, and with its own Nuclear Metals Division for the manufacture of fuel elements and reactor components.

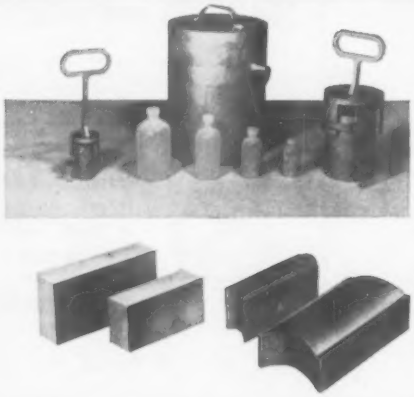
Working out of this background, National Lead is eminently well qualified to take complete and undivided responsibility for the execution of *any* gamma shieldment, no matter its complexity, size and associated hardware requirements. Further, National Lead is not only "National" in name but national in scope. Warehouses and plants are convenient to all centers of nuclear activity.



SHIELDING DOOR
This access door, approximately 16′ x 13′ x 13″, for the Indian Point, New York, Atomic Power Plant of Consolidated Edison Company, is being built by National Lead. Gamma shielding in door and frame consists of about 160 tons of lead in the form of brick and shot.

Stock Lead Shielding

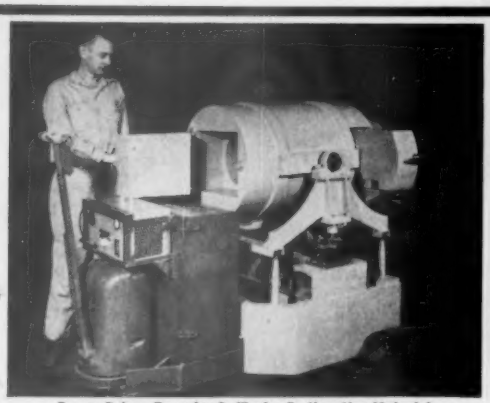
National Lead can supply shielding grade lead in every conceivable form and in unlimited quantities virtually off-the-shelf. Pig, ingot, slab, sheet, ribbon, wool, sleeving, brick, shot and powder are some of the forms. Many items can be supplied as "Hi-Hard" lead with a Brinell hardness of around 20. Standard shipping and storage containers — single or nested — are supplied on short notice. For the shielding required in certain counting procedures, a type of lead with extremely low activity is frequently available.



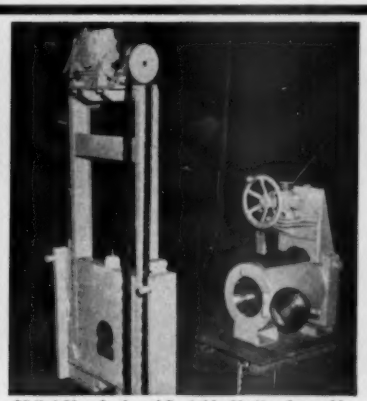
Complete Post-Fabrication Testing

National Lead is fully equipped with Co-60 sources of various intensities, instrumentation and trained, licensed personnel to gamma probe all shieldments. The equipment may be used in our own plant laboratories or loaded in our special over-the-road "Mobilab" for on-site testing.

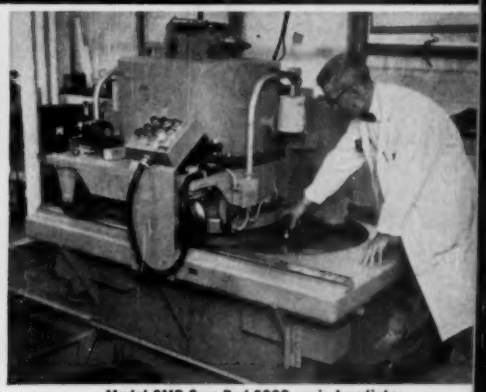
SHIELDING...NATIONAL LEAD



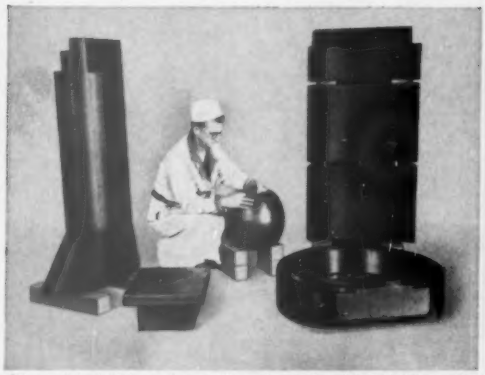
Power-Driven Transfer Coffin for Radioactive Material



8" Hot Plug Cask and Portable Shutter Assembly

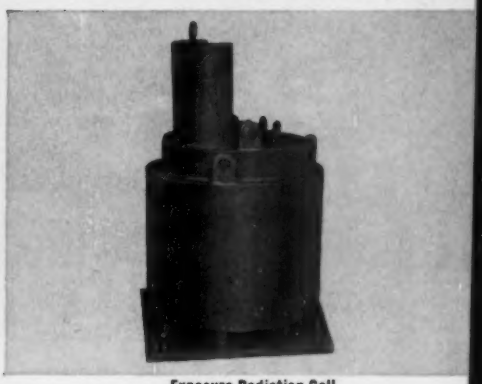


Model 2MD Gam-Rad 6000 curie Irradiator

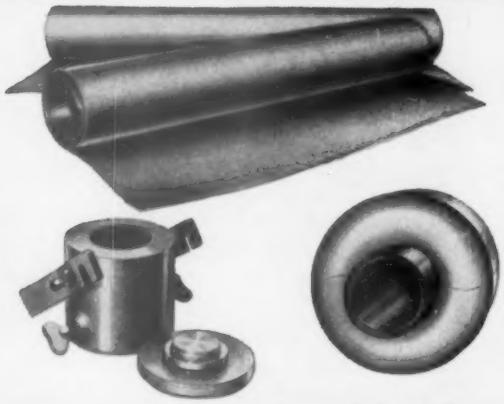


Group of depleted uranium castings. Largest weighs 2,078 pounds

5000 curie Cs-137 Irradiator



Exposure Radiation Cell



BONDED LEAD WORK

As the originator of "Tubond" lead products, widely used for over a half-century in the chemical processing field, National Lead can supply bonded lead components where operating conditions entail efficient heat-exchange, vibration or mechanical abuse of equipment. The "Tubond" process assures the highest degree of overall bond of lead with its companion metal. When specified, ultrasonic testing equipment is employed to determine integrity of bond.

The "Tubond" process provides a bond that is virtually inseparable

Testing is carried out at outdoor ranges (left) or indoor laboratories (below)

NATIONAL LEAD COMPANY

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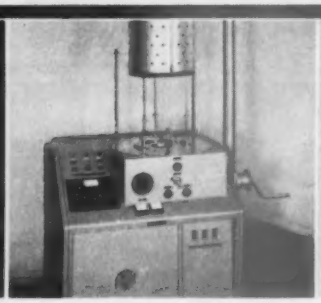
HIGH and ULTRA-HIGH VACUUM EQUIPMENT

CRYSTAL GROWING

Low-cost resistance heated standard furnace for growing single crystals of silicon, germanium, and intermetallic compounds under inert gas or vacuum. Minimum maintenance. Top reliability.



VACUUM COATING

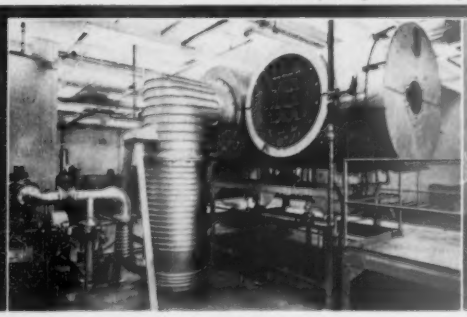
Model 3144 is complete facility for single or multiple source deposition of films with thicknesses controllable from a few molecules to a few mils. Standard bell jar and tank coaters range from table-top to 84" I.D., operate to 10^{-5} mm Hg. Special units also available, including electron beam and ultra-high vacuum coaters operating at 10^{-9} mm Hg.

TANTALUM SINTERING FURNACE

Model 2915 is a high capacity, packaged. internal element furnace, featuring long-lived, 3 phase, 6"ID x 10" element — high speed heating and evacuation to 4400°F and 10^{-6} mm Hg. — graphic panel — automatic protective devices Larger and smaller units also available.

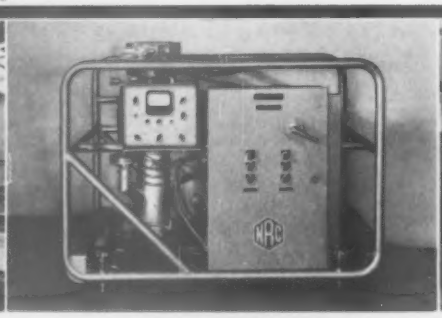
ELECTRON BEAM WELDING

Provides contamination-free, precision welding with minimum heat-affected zone and depth/width ratios to 4/1. Ideal for heat sensitive assemblies, evacuated units, and reactive and refractory metals.



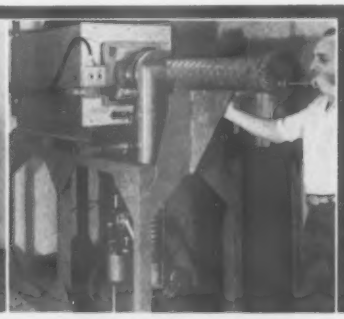
SPACE CHAMBERS

Standard and special systems to simulate the pressures and temperatures found at altitudes to above 400 miles. Available in sizes from 12" to 84" I.D., pressures to 10^{-10} mm Hg.



PORTABLE PUMPING SYSTEMS

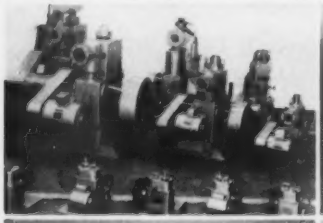
Highly flexible vacuum sources for production and research. Fast and efficient, can operate as low as 10^{-8} mm Hg. range. Available with 2, 4, 6 and 10" diffusion pumps. Self-contained, just plug in power and cooling water.

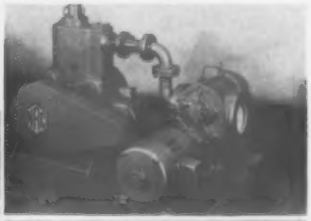


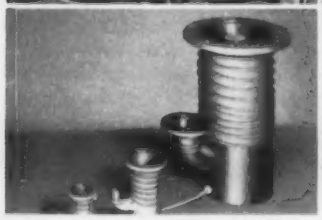
HEAT TREATING AND OTHER VACUUM FURNACES

Two-zone, 5" diameter muffle vacuum heat treating furnace. Others available from 2" to 54". Temperatures to 2200°F. Pressure to 10^{-6} mm Hg. Complete line of Vacuum Furnaces — induction, arc, and resistance — with capacities from 2 to 10,000 lbs. Also new Electron Beam Furnaces for ultimate in purity.

HIGH and ULTRA-HIGH VACUUM PUMPS and GAUGES

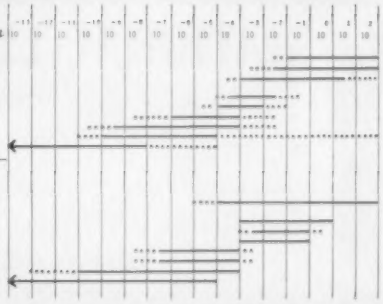


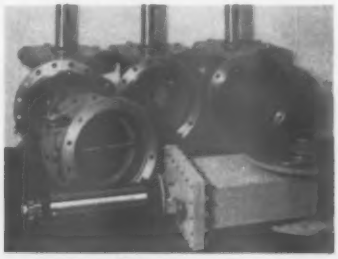




Pumps	Capacity CFM	"Clean" Vacuum	Remarks
Rotary Gas Ballast:			
Single Stage	1.25-400	no	Gas ballast keeps pump
Two Stage	1.25-400	no	oil free of condensables
Mechanical Booster	250-4800	yes	Very high speed throughout motion range
Booster Diffusion	25-6000	no	Oil and mercury
Molecular Drag	150	very	For special purpose tubes
Diffusion — Untrapped	70-60,000	no	Oil and mercury
With Cold Trap		yes	Very reliable
Titanium Adsorber	10	yes	Intermittent operation
Ion	2	very	For small UHV systems

Gauges	Linear	Immune to Atm. Press.	Remarks
Alphatron® Ionization	yes	yes	Accurate. Wide range
Log Alphatron® Ionization	no	yes	Inexpensive. Single scale
Thermocouple	no	yes	Rugged. Inexpensive
Pirani	partially	yes	Linear 1-20 microns
Ionization	yes	no	Accurate. Widely used
Spec. Ionization	yes	yes	Special filament
Nottingham Ionization	yes	no	Indirect readings below 10^{-10}
Redhead	yes	no	Direct readings. Self regulating emission





VACUUM VALVES

Air release, ball, throttling, high conductance, angle, wye, globe, and slide valves. Manual and air operation. Bronze, mild and stainless steel, aluminum. Bellows and O-ring sealed. For all sizes of systems, from ¼" to 36". ALSO seals, flexible connectors, cold traps, and accessories.

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NRC Equipment offers both high vacuum technology and a complete line of reliable high vacuum equipment. Together, they provide valuable "one-stop" source for all your high vacuum needs.

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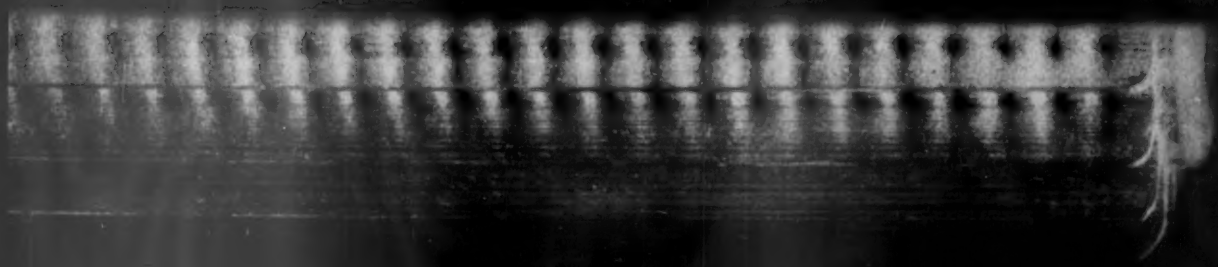

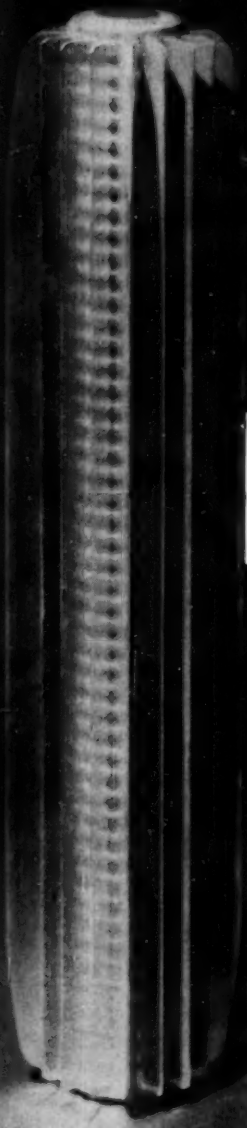

SiG

The S. I. C. N. supplies the Commissariat à l'Energie Atomique with the fuel elements of the power reactors G1, G2, G3 of the reactor EL2 and of the nuclear power plants EDF-1 and EDF-2 of the French Electricity Authority.

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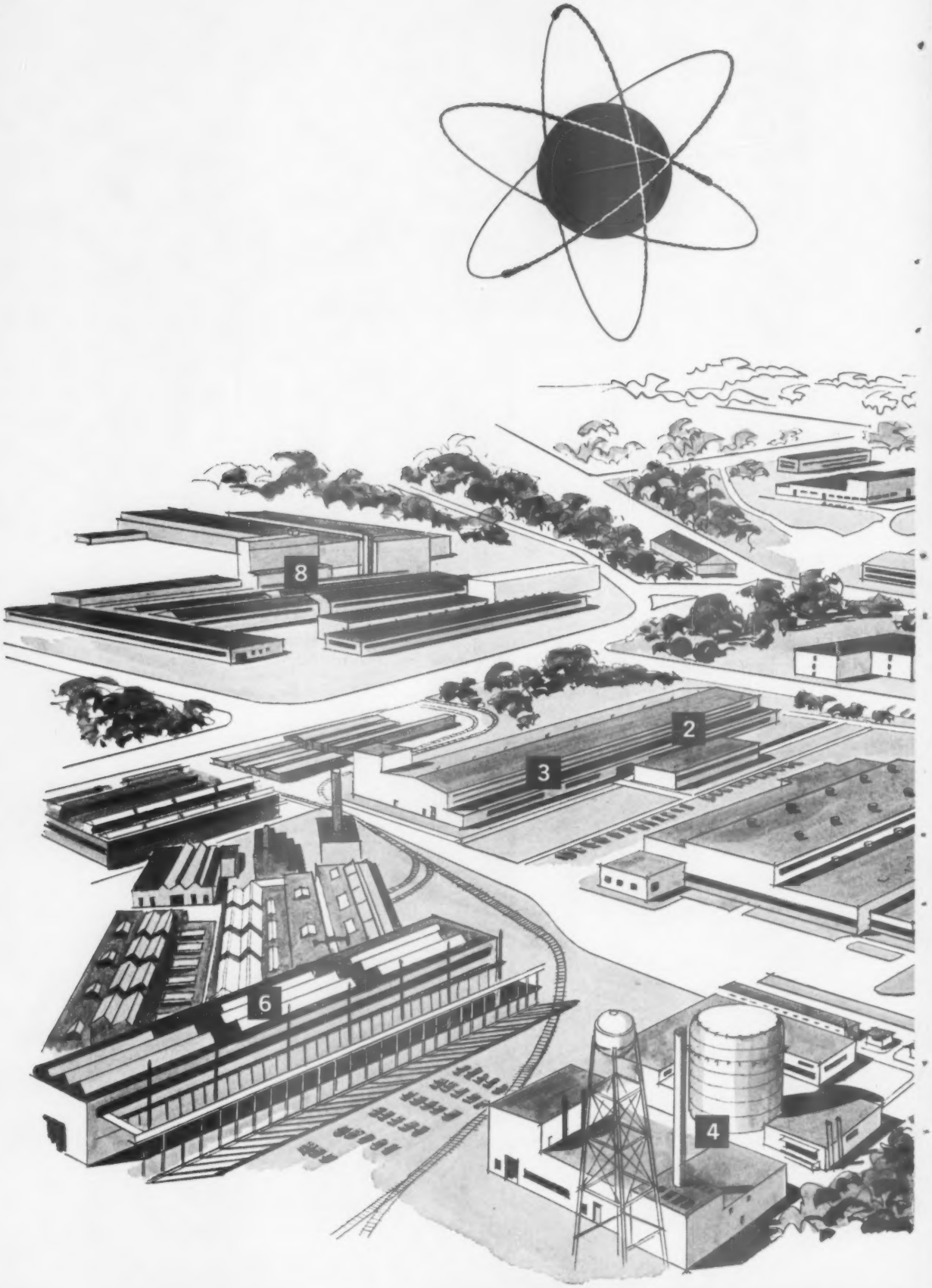
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Westinghouse "Atomic Community" . . . 9 Separate Plants and Laboratories — Complete Atomic Power Capability

1 Atomic Power Department . . . headquarters for the research, design and development of power reactors. **2** Atomic Equipment Department . . . apparatus for atomic power plants: "canned" motor-pumps, valves, control-rod drive mechanisms, etc. **3** Atomic Fuel Department . . . atomic fuels, fuel components and control rods. **4** Testing Reactor . . . facilities for basic irradiation testing of fuels and reactor materials. **5** Astronuclear Laboratory . . . atomic power for outer space and other advanced applications. **6** Heat Transfer Department . . . steam generators, pressurizers, reactor vessels, waste evaporators, heat exchangers, for atomic power plants. **7** Electronic Tube Division . . . neutron and radiation detectors. **8** Power Control and Communication Department . . . nuclear plant control and instrumentation. **9** Materials Manufacturing Department . . . full-scale evaluation of metallurgical developments and pilot production of new alloys and precision castings.

Facilities operated for U. S. Government are not shown.

WESTINGHOUSE FACILITIES FOR DESIGN, DEVELOPMENT AND MANUFACTURE OF POWER REACTORS, REACTOR COMPONENTS AND FUEL

Starting with the atom smasher in 1936, Westinghouse has built plants and laboratories one after another—facilities to meet the chain of challenges of atomic power. Today, 7000 Westinghouse scientists, engineers and technicians are constantly striving for new achievements, higher goals, in progressively solving the difficult problems in the development of atomic power.

Westinghouse has created a totally integrated organization in atomic power . . . for the research, design, manufacture and installation of complete atomic power plants —reactor components—fuel.

You can be sure . . . if it's Westinghouse.

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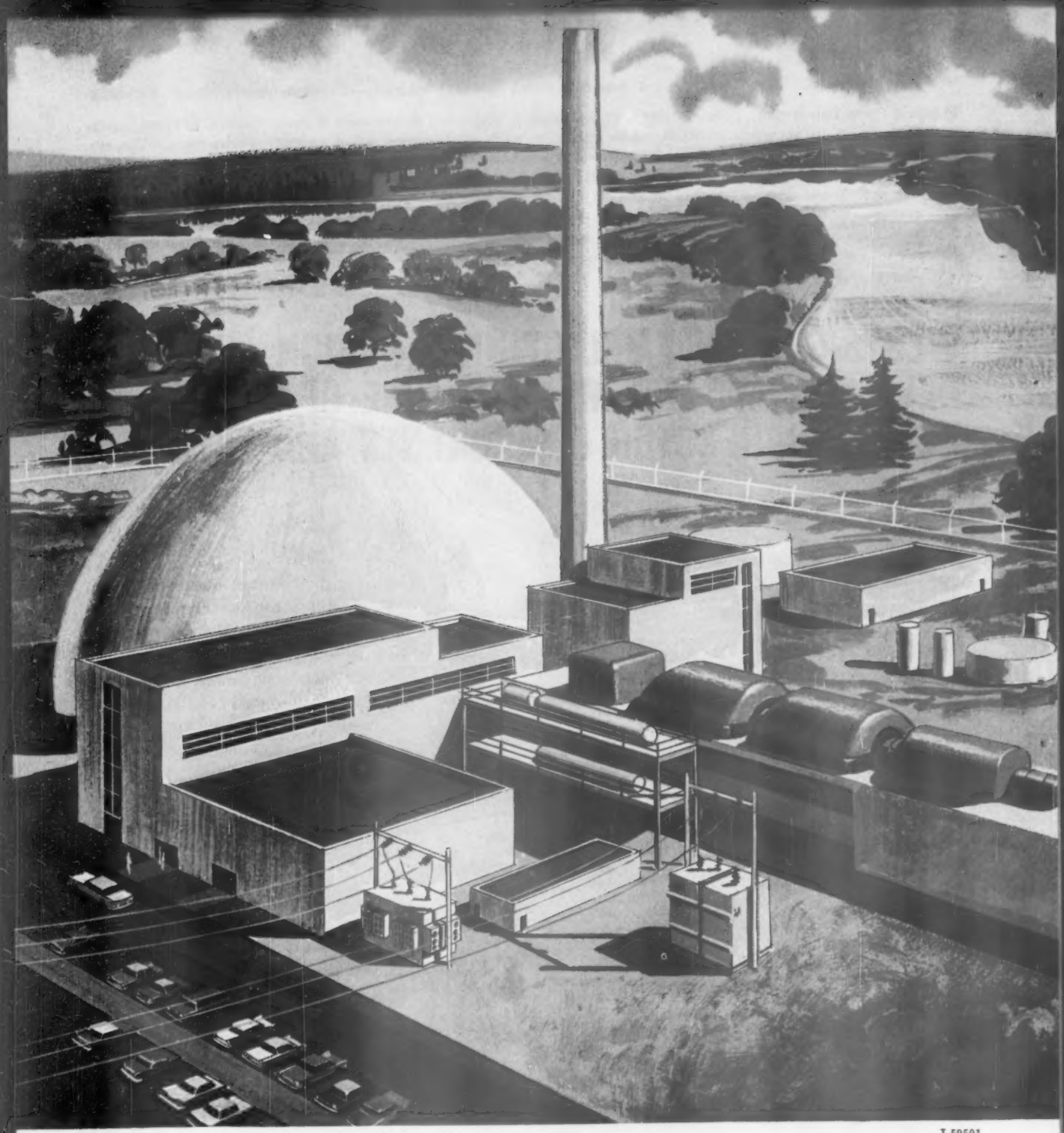

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ONE ORDER...ONE CONTRACT...ONE RESPONSIBILITY

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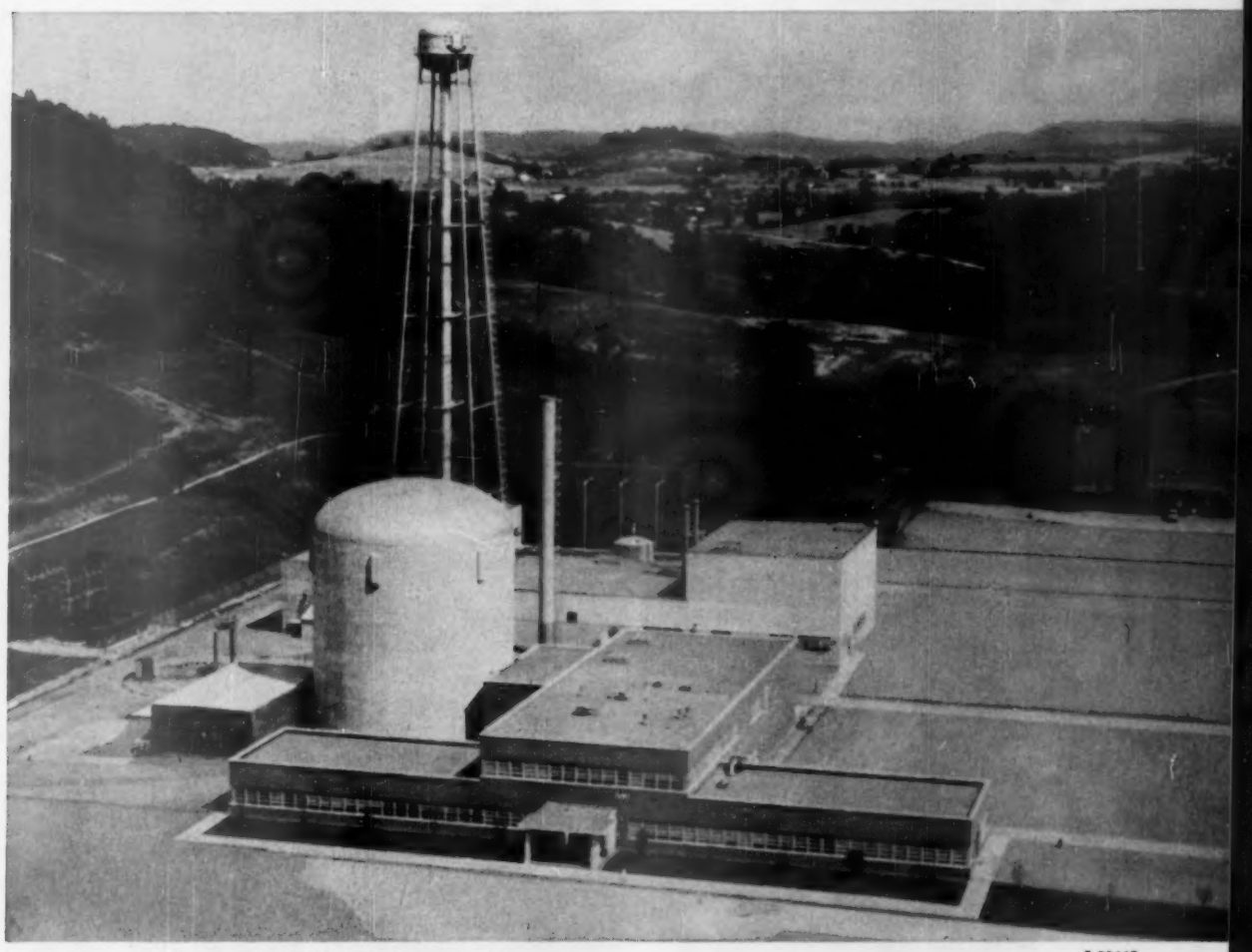
THIS 60,000-KILOWATT TESTING REACTOR—AVAILABLE TO INDUSTRY

The country's most powerful privately owned testing reactor is now available for all types of nuclear testing at a maximum flux level of 3.2×10^{14} n/cm²/sec. ■ The reactor is scheduled to operate on a 31-day cycle, including 7 days for experimental loading. Available facilities: high flux irradiation space; high pressure, high temperature loop equipment; general and metallographic hot cells; chemistry and counting laboratories; critical experiment facility. ■ For contract reservations and assistance in scheduling and planning nuclear materials tests, write Westinghouse Testing Reactor, P. O. Box 1075, Pittsburgh 30, Pa. *You can be sure . . . if it's Westinghouse.*



Westinghouse Testing Reactor, Waltz Mill, Pennsylvania

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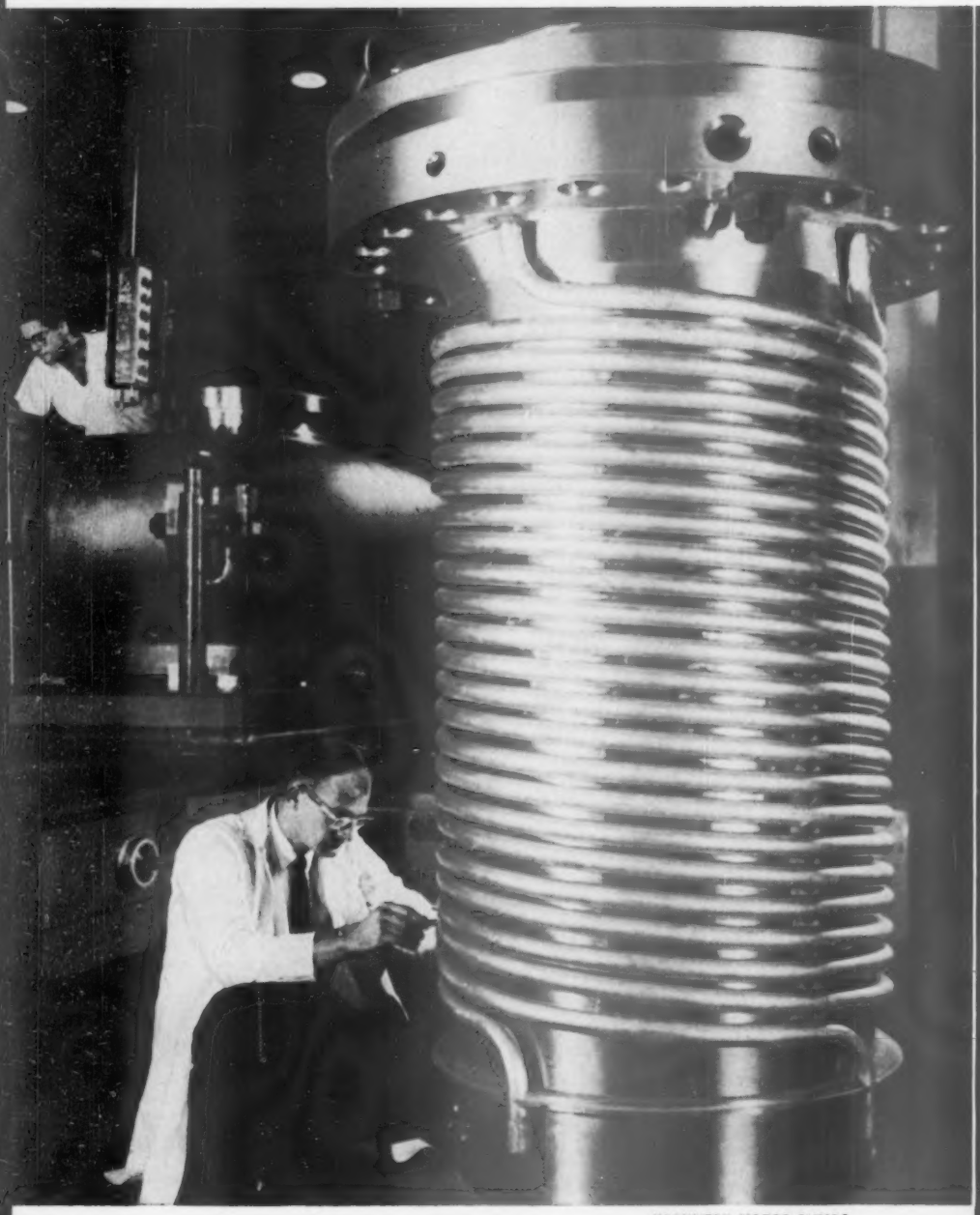
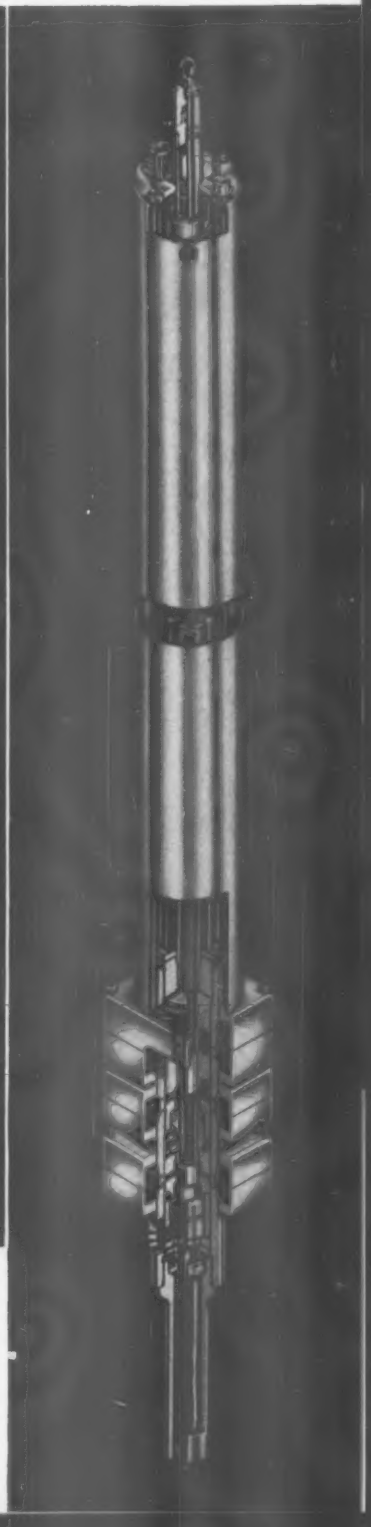
PROVEN COMPONENTS FOR NUCLEAR REACTORS



"CANNED" MOTOR-PUMPS



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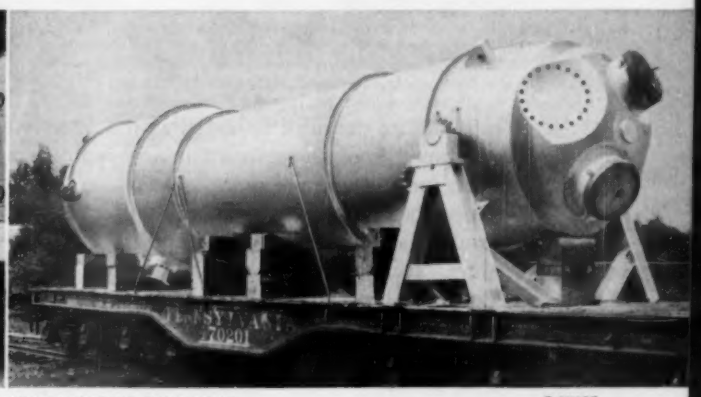

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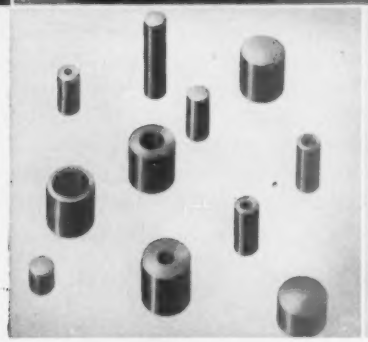

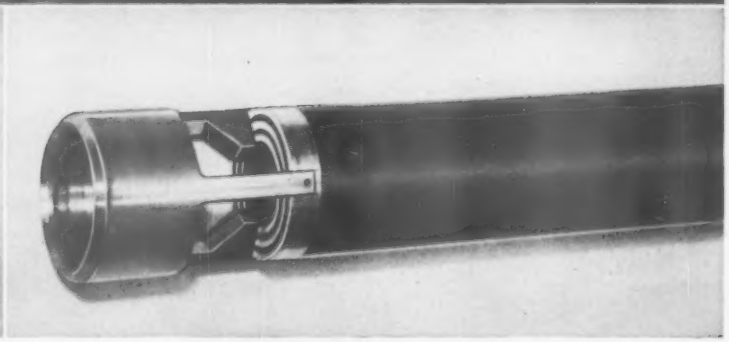

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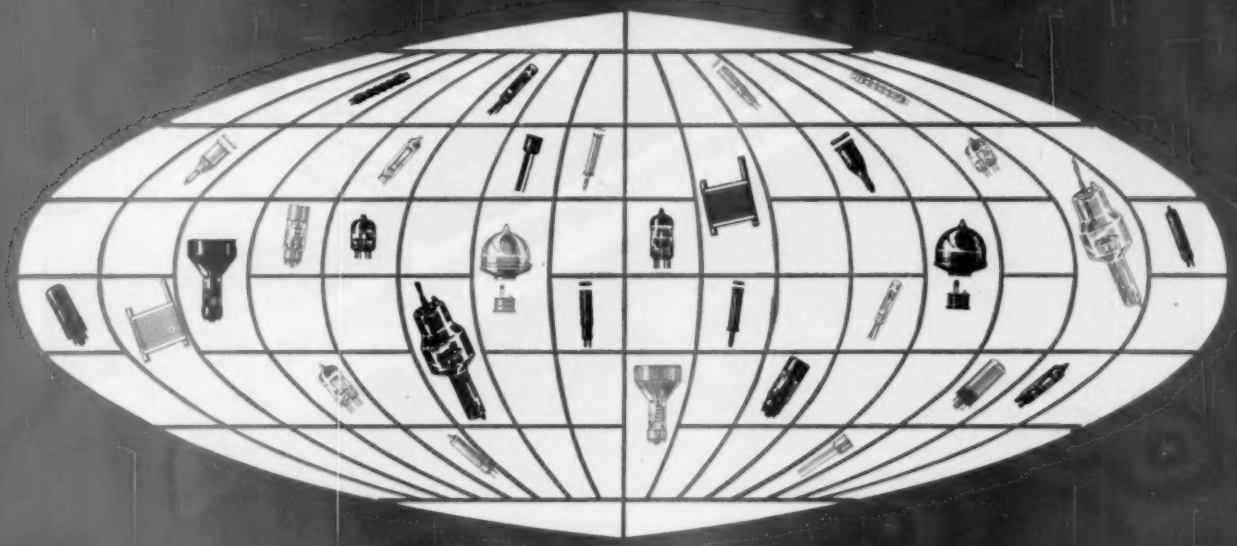

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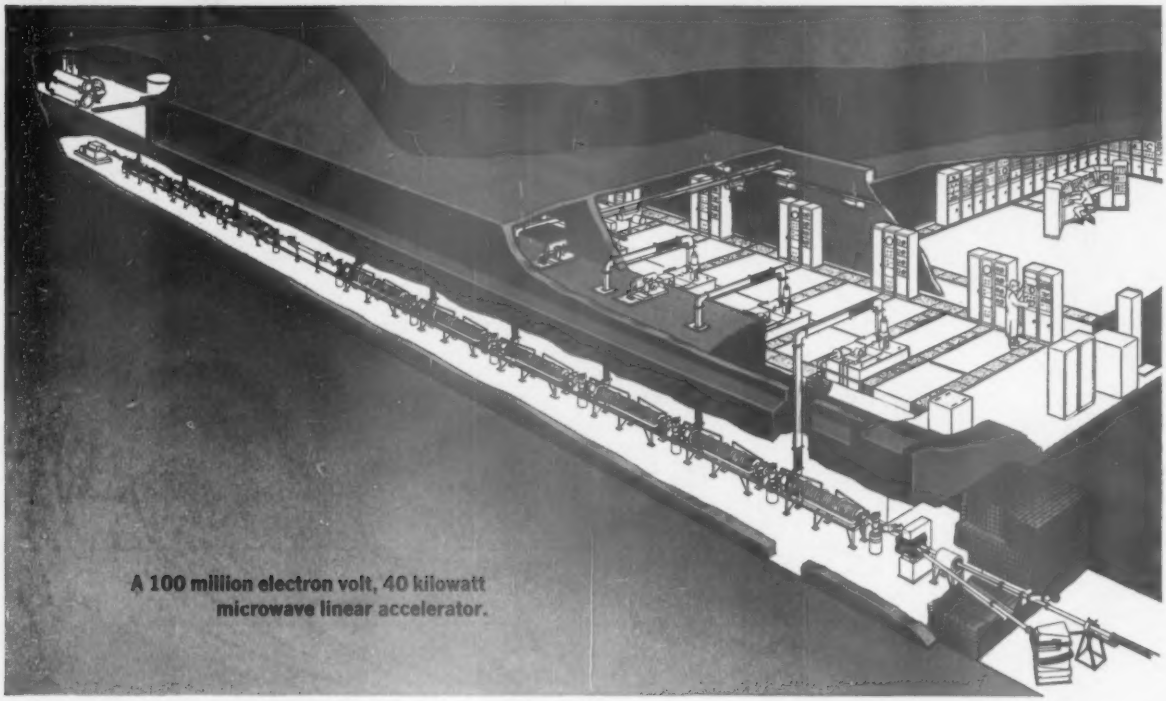

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Our compilation, which we intend to make an annual institution, has the advantage of early publication of new, broadly useful data and correlations and of providing a means for annual updating.

We know our readers will find this compilation a valuable addition to their reference collection. We ask in turn that they give thoughtful consideration to how it can be improved and to new material for next year's Reference-Data Manual.

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REACTOR TABLE

Power Reactors and

This table is a quick source of readily-compared data on the essential features of heat-producing reactors past, present and on the way. These data show power reactor trends and make available that foundation of experience on which progress depends. The arrangement by type of coolant is intended to ease comparison of essential reactor features. The table includes some experimental reactors (such as PRTR, Spert, HTRE, SNAP, and KIWI) that might not find their way onto lists restricted to utility-station power reactors but which are close relatives.

Terminology. A number in parentheses immediately after the reactor name indicates the number of identical reactors in that facility (if more than one). If the reactor has not gone critical, the currently scheduled date is given in

		Power (Mw)				Fuel			
Reactor, Location	Date critical	Thermal	Elec. (net)	Effic. %	Loops/ reactor	Enr. %	Matl.	Shape	Cladding
Pressurized-Water-Cooled Power Reactors									
PWR, Shippingport, Pa.	Core 1: 12/2/'57	225	Seed: 30 Blnkt: 30 } 60	27	3(+1 reserve)	93 Natl.	6.3U-Zr UO_2	Plates Pellets	Zry-2 28-mil Zry-2 tubes
	Core 2: ('62 or '63)	525	100(+50 equiv.)	29	4	Natl. & 93	UO_2	Rect. pellets	Zry-2 plates
Yankee, Rowe, Mass.	8/19/'60	485	136	28	4	3.4	UO_2	Pellets	SS-348 tubes
BR-3, Mol, Belgium	(12/15/'60)	40.9	10.5	26	1 out, 2 in	3.7, 4.4	UO_2	Pellets	21-mil SS-348 tubes
Indian Point, Buchanan, N. Y.	('61)	585	151(+104 oil sprht)	26	4	93	UO_2-ThO_2	Pellets	SS-304 tubes
N.S. Savannah, U. S. cargo ship	('61)	63	16.5 equiv.	26	2	4.2, 4.6	UO_2	Pellets	32-mil SS-304 tubes
Saxton, Pa.	('62)	20	4.5	22.5	1	3.9	UO_2	Pellets	SS tubes
SELNI, N. Italy	('63)	615	165	27	4	2.6, 2.7, 2.8	UO_2	Pellets	SS tubes
So. Calif. Ed., Calif.	('64)	1,150	340	30	5	~2-3	UO_2	Pellets	Zry or SS tubes
SENA, Chooz Ardennes, France	('65)	825	242	29	4	3.1	UO_2	Pellets	SS tubes
ELPHR, site not chosen	('62)	40	0	NA	1	3	UO_2	Pellets	20-mil SS-304L tubes
SSPWR, site not chosen	('63)	61	22	36	1	?	?	?	?
PRTR, Richland, Wash.	(12/'60)	70	10	NA	2	Natural UO_2 pellets in Zry-2 tubes and 1.8 Pu-Al rods in Zry-4 tubes			
CVNPA, Parr Shoals, S. C.	(6/'62)	62.9	17	27	1 in, 2 out	1.2	UO_2	Pellets	Zry-2 tubes
NPD, Des Joachims, Ont., Canada	('61)	88.9	19.3	22	1	Natl.	UO_2	Pellets	15-mil Zry-2 tubes
CANDU, Kincardine, Ont., Canada	('65)	698	203	29	1	Natl.	UO_2	Pellets	15-mil Zry-4 tubes
R3/Adam, Agesta, Sweden	(3/'63)	65	10(+55 stm)	—	1	Natl.	UO_2	Pellets	27-mil Zry-2 tubes
R4/Eve, Marviken, Sweden	('67)	365	100	27	6	Natl.	UO_2	Pellets	Zry-2 tubes
APPR-1[SM-1], Ft. Belvoir, Va.	4/'57	10	1.86	18.6	1	93	23UO_2-SS cermet	Plates	5-mil SS-304L
APPR-1A[SM-1A], Ft. Greely, Alaska	(12/'60)	20.2	1.64	16.2	1	93	23UO_2-SS cermet	Plates	5-mil SS-304L
PM-1, Sundance, Wyoming	('60)	9.4	1(+2 stm)	14-32	1	93	UO_2-SS cermet	Tubes	6-mil SS
PM-2A, Camp Century, Greenland	10/2/'60	10	1.56(+0.3 stm)	—	1	93	UO_2-SS cermet	Plates	SS
PM-3A, Antarctica	(2/'62)	4.4	1.5(+0.65 stm)	—	1	93	UO_2-SS cermet	Tubes	6-mil SS
Portable Russian, Obninsk, USSR	'59	?	2	?	?	?	?	?	?
APS-1, Obninsk, USSR	5/'54	30	5	16.5	1	5	U alloy	Tubes	SS tubes
Lenin, (3), Icebreaker, USSR	'59	2 × 90	2 × 31 equiv.	34	?	5	UO_2	Pellets	Zry tubes
Siberia, (6), Troitsk, USSR	'58, ('60)	?	6 × 100	?	?	Natl.?	U	Rods	SS tubes
Rheinsberg, East Germany	('60)	?	70	?	?	?	?	?	?
Voronezh, USSR	('61)	760	196	26	3	1.5	UO_2	Pellets	Zry tubes
Boiling-Water-Cooled Power Reactors									
Borax-1, NRTS, Idaho	7/'53-'54	1.2	0	NA	NA	90	U-87Al	Plates	Al
Borax-2, NRTS, Idaho	10/19/'54-5/'55	6.4	0	NA	NA	90	U-87Al	Plates	Al
Borax-3, NRTS, Idaho	6/9/'55-'56	12	2.3	19	1	90	U-81 & 88 Al	Plates	Al
Borax-4, NRTS, Idaho	12/'56-58	20.5	2.4	12	1	90	UO_2-ThO_2	Pellets	Al-1Ni tube plates
Borax-5, NRTS, Idaho	(12/'60)	35.7	3.5	10	1	Boiler: 5 Sprhtr: 93	UO_2 UO_2-SS 304 cermet	Pellets Plates	SS tubes SS
EBWR, Argonne, Ill.	Core 1: 12/1/'56-7/'59	20	4.6	23	1	Natl. & 1.44	U-5-Zr-1.5Nb	Plates	17-mil Zry-2
	Core 2: (12/'60)	100	5 (+67 stm)	NA	1 (+ thermal)	Natl., 1.44, 93	U-5Zr-1.5-Nb & UO_2-ZrO_2-CaO	Plates & rods	Zry-2 & Zry-2 tubes
VBWR, Pleasanton, Calif.	Core 1: 8/5/'57-10/'59	50	5	NA	1	93	23-29UO_2-b S	Plates	SS-304L
	Core 2: 8/'60	50	5	NA	1	2.7 & 3.5	UO_2	Pellets	SS & Zry tubes
ALPR[SL-1], NRTS, Idaho	8/'58	3	~0.3 (+0.4 stm)	NA	1	~93	U-80AL-2Ni	Plates	Al-1Ni

Experiments the World Around

parentheses. "Efficiency" is 100 × net electrical power/gross heat developed by the reactor. "Loops/reactor" is the number of parallel external coolant loops removing heat from the reactor. Under fuel "material," a uranium-molybdenum alloy in which there is 10 wt% molybdenum is written "U-10Mo"; when there is 29 wt% UO_2 ceramic powder dispersed in type 304 stainless steel, the designation is "29UO_2-SS304." Fuel "shape" pertains to the fuel core itself, without cladding. "NA" means not applicable. The reader should recognize that reactors whose criticality dates lie far in the future may be changed in one particular or another by the time criticality is achieved. Available information on naval reactors and other notes, references and keys to abbreviations can be found at the end of the table.

	Reactor coolant			Steam					
Moderator	Matl.	Exit °F	Exit psia	°F	psia	Turbine	Designer/builder	Owner/operator	Reactor
H_2O	H_2O	537	1,960	486	600	1	Bettis(W)	USAEC/Duquesne Lt. Co.	PWR
H_2O	H_2O	?	?	?	?	1	Bettis(W	USAEC/Duquesne Lt. Co.	
H_2O	H_2O	532	2,000	467	500	1	Westinghouse	Yankee Atomic Elec. Co.	Yankee
H_2O	H_2O	515	2,000	472	525	1	Westinghouse	CEN	BR-3
H_2O	H_2O	519	1,500	449, 1,000 sprhtr	420, 370 sprhtr	1	B & W	Consolidated Edison Co.	Indian Pt.
H_2O	H_2O	521	1,750	508–460	735–465	2	B & W	USAEC/States Marine Lines	N.S. Savannah
H_2O	H_2O	544	2,000	462	475	1	Westinghouse	Genl. Public Utils. Corp.	Saxton
H_2O	H_2O	544	2,150	467	500	1	Westinghouse	SELNI	SELNI
H_2O	H_2O	587	2,150	495	650	1	Westinghouse	So. Cal. Ed.	So. Cal. Ed.
D_2O	D_2O	?	?	464	498	2	W,ACEC, Framatome	SENA	SENA
H_2O	H_2O	~430	970	380	196	0	Allis-Chalmers	USAEC	ELPHR
H_2O	H_2O	?	?	?	?	1	?	USAEC/?	SSPWR
D_2O	D_2O	530	1,040	450	410	1	Hanford(GE)	USAEC/Hanford(GE)	PRTR
D_2O	D_2O	555	1,500	487	605	1 (existing)	Westinghouse	CVNPA	CVNPA
D_2O	D_2O	530	1,036	448	415	1	Canadian Genl. Elec.Co. Ltd.	AECL & Ontario Hydro	NPD
D_2O	D_2O	560	1,310	483	580	1	AECL/Ont. Hydro	AECL & Ont. Hydro	CANDU
D_2O	D_2O	428	480	380	200	1	AB Atomenergi/ASEA	Atomenergi/State Power & Stockholm Elec. Bds.	R3
D_2O	D_2O	?	?	?	?	1	AB Atomenergi/ASEA/Nohab	State Power Bd.	R4
H_2O	H_2O	450	1,206	417	210	1	Alco	USAEC/Alco	APPR-1
H_2O	H_2O	443	1,200	382	200	1	Alco	U.S. Army	APPR-1A
H_2O	H_2O	479	1,300	417	300	1	Martin	USAEC/USAF	PM-1
H_2O	H_2O	518	1,750	463	480	1	Alco	U.S. Army	PM-2A
H_2O	H_2O	479	1,300	417	300	1	Martin	USAEC/U.S. Navy	PM-3A
H_2O	H_2O	?	1,710	536	290	?	USSR	USSR	Portable Russian
Graphite	H_2O	374	1,420	535	176	1	USSR	USSR	APS-1
H_2O	H_2O	615	2,850	590	430	3	USSR	USSR	Lenin
Graphite	H_2O	428	?	365	90?	3	USSR	USSR	Siberia
?	H_2O	?	?	?	?	?	USSR	USSR	Rheinsberg
H_2O	H_2O	525	1,420	445	410	3	USSR	USSR	Voronezh
H_2O	H_2O	350	130	Direct cycle		0	ANL	USAEC/ANL	Borax-1
H_2O	H_2O	419	300	Direct cycle		0	ANL	USAEC/ANL	Borax-2
H_2O	H_2O	419	300	Direct cycle		1	ANL	USAEC/ANL	Borax-3
H_2O	H_2O	419	300	Direct cycle		1	ANL	USAEC/ANL	Borax-4
H_2O	H_2O & steam	489	100–600	850	540–600	1	ANL	USAEC/ANL	Borax-5
H_2O	H_2O	489	615	Direct cycle		1	ANL	USAEC/ANL	EBWR
H_2O	H_2O	545	1,015	Direct cycle		1	GE	GE	VBWR
H_2O	H_2O	422	315	Direct cycle		1	ANL	USAEC/Comb. Eng.	ALPR

Reactor Table (Continued)

Reactor, Location	Date critical	Power (Mw) Thermal	Elec. (net)	Effic. %	Loops/ reactor	Fuel Enr. %	Matl.	Shape	Cladding
Halden, Norway	Core 1: 6/'59	5	0	NA	1	Natl.	U	Rods	Al tubes
	Core 2: (4/'61)	20	0	NA	1	1.5	UO_2	Pellets	Zry tubes
Dresden, Morris, Ill.	10/15/'59	630	180	28	1	1.5	UO_2	Pellets	Zry-2 tubes
Kahl, W. Germany	(12/'60)	60.4	15	25	1	2.3, 2.6, 2.3	UO_2	Pellets	Zry-2 tubes
Elk River, Minn.	(12/'60)	Reactor: 51.1 Sprhtr: 13.0 (oil)	20.5	32	2	93	180 Kg UO_2 & 4,219 Kg, ThO_2	Pellets	B-SS-304 tubes
Volga, Ulyanovsk, USSR	('61)	250	50	20	1	1.5	UO_2	Pellets	Zry tubes
Kurchatov APS, (2), Beloyarsk, USSR	('61)	2 × 285	2 × 94	33	4	Boiler: ?	U	Tubes	SS tubes
						Sprhtr: 1.3	U	Tubes	SS tubes
Sioux Falls, S. D.	('62)	Boiler: 157.2 Sprhtr: 42.4	62.0	31	1	1.8	UO_2	Pellets	Zry-2 tubes
						93	UO_2-SS cermet	Tubes	SS
Humboldt Bay, Eureka, Cal.	(6/'62)	163	50 gross	<31	1	1.9	UO_2	Pellets	Zry-2 tubes
Big Rock Pt., Mich.	(10/'62)	160	50 gross	<31	1	3.2	UO_2	Pellets	SS tubes
Bonus, Punta Higuera, Puerto Rico	(12/'62)	Boiler: 37 Sprhtr: 13	16.3	33	?	Natl. & 2.15	UO_2	Pellets	Zry-2 tubes
						3.2	UO_2	Pellets	SS-347 tubes
Japan BWR, Tokai Mura, Japan	(1/'63)	45	12	27	1	2.6 max.	UO_2	Pellets	Zry tubes
SENN, Punta Fuime, S. Italy	(2/'63)	508	150	30	2	2	UO_2	Pellets	Zry-2 tubes
Los Angeles [ICBWR], Calif.	'64	?	50-75	?	1	?	?	?	?
AKV, Simpevarp (E. coast), Sweden	('65)	~170	~53	31	1	~2.8	UO_2	Pellets	SS tubes
Spert-1, NRTS, Idaho	7/11/'55	0-510 (excursions)	0	NA	1	93	19UO_2-SS304B	Plates	5-mil SS
Spert-2, NRTS, Idaho	2/'60, H_2O; 8/'60, D_2O	0	0	NA	1	93	12U-Al	Plates	20-mil Al
Spert-3, NRTS, Idaho	12/'58	60	0	NA	2	93	19UO_2-SS304B	Plates	5-mil SS
Spert-4, NRTS, Idaho	(9/'61)	1	0	NA	1	93	23U-Al	Plates	20-mil Al
Organic-Cooled Power Reactors									
OMRE, NRTS, Idaho	9/'57	5-15	0	NA	1	93	25 UO_2-SS cermet	Plates	5-mil SS 304
OMR, Piqua, Ohio	(7/'61)	45.5	11.4	25	2	1.94	U-3.5Mo-0.1Al	Conc. tubes(2)	35-mil Al can, finned
EOR, NRTS, Idaho	(1/'62)	40	0	NA	1	93	17UO_2-SS304B	Plates	5-mil SS
OCDRE, Whiteshell, Man., Canada	('64)	40	0	NA	≤ 6	1.4 & natl.	UO_2	Pellets	M257 Al tubes
Homogeneous Reactors									
HRE-1, Oak Ridge, Tenn.	3/'52-'54	1	0.15	15	1	93	UO_2SO_4 in H_2O	Liquid	18" i.d. SS 347
HRE-2, Oak Ridge, Tenn.	12/'57	5	0.30	NA	1	93	UO_2SO_4 in D_2O	Liquid	Zry-2 vessel
LAPRE-1, Los Alamos, N.M.	2/'56-1/'57	2	0	NA	1	93.5	UO_2 in H_3PO_4	Liquid	Au-clad SS vessel
LAPRE-2, Los Alamos, N.M.	'59-'59	0.8	0	NA	1	93.5	UO_2 in H_3PO_4	Liquid	Au-clad SS vessel
Volga, Ulyanovsk, USSR	(?)	35	?	?	?	?	UO_2 in D_2O	?	?
Liquid-Metal-Cooled Power Reactors									
EBR-1, Mark III, NRTS, Idaho [Mk I: 8/'51-2/8/'54; Mk II: 2/'54-11/'55]	11/'57	1.4	0.2	14	1	Core: 93	U-2Zr	Rods	Zry-2 tubes
						Blnkt: Natl.	U-2Zr	Rods	Zry-2 tubes
EBR-2, NRTS, Idaho	('61)	62.5	21	34	1	Core: ~50	U+5 fission alloy	Pins	SS-304 tubes
						Blnkt: 0.22	U	Pins	SS-304 tubes
DFR, Dounreay, Scotland	'59	Core: 60 Blanket: 12	15	21	24	30	U	Tubes	Nb outer, V inner
						Natl.	U	Rods	SS tubes
Fermi, Lagoona Beach, Mich.	('61)	300	90	30	3	Core: 25.6	U-10Mo	Pins	Zr
						Blnkt: 0.4	U-10Mo	Rods	SS
Rapsodie, Cadarache, France	('61 or '62)	10	0	NA	?	?	U^{235} + Pu	?	?
BR-5, Obninsk, USSR	'58	5	0	NA	?	Core: NA	PuO_2	?	SS
						Blnkt: ?	U	?	SS
BR-50, Obninsk, USSR	(?)	?	50	?	?	?	U-Pu	?	?
BR-250, USSR	(?)	?	250	?	?	NA	Pu	?	?
S1G, West Milton, N. Y.	'55-'57	?	?	?	?	93	?	?	?
S2G, Seawolf	3/'57-'59	?	?	?	?	93	?	?	?
SRE, Santa Susana, Calif.	Core 1: 4/23/'57-7/26/'59 Core 2: 9/5/'60	20	6.2	31	1	2.8	U	Rods	10-mil SS 304 tubes
						?	Th-7.6U	Rods	SS tubes
SGR, Hallam, Nebraska	('61)	240	76	32	3	3.6	U-10Mo	Rods	SS
Volga Centre Sta., Ulyanovsk, USSR	(?)	?	50	?	?	?	?	?	?
SNAP-2, Santa Susana, Calif.	9/'59	0.05	0.003	6	1	?	U-ZrH	Cylinders	Hastelloy-N tubes
SNAP-8, Santa Susana, Calif.	(?)	0.3-0.6	0.03-0.06	10	1	93	U-ZrH	Cylinders	?
SNAP-10, Santa Susana, Calif.	8/'60	0.015	0.003	2	0	93	U-ZrH	Disks	Hastelloy
LAMPRE-1, Los Alamos, N. M.	('61)	1	0	NA	1	90	Pu-2.5Fe	Molten	Ta + 0.1W cans
Gas-Cooled Power Reactors									
Calder Hall, (4), England	5/22/'56-'59	200 × 4	37 × 4	18.5	4	Natl.	U metal	Rods	Magnox-A12 finned tubes
Chapelcross, (4), Scotland	9/'58-12/'59	200 × 4	37 × 4	18.5	4	Natl.	U metal	Rods	Magnox-A12 finned tubes
Berkeley, (2), England	(10/'61)	557 × 2	138 × 2	24.8	4	Natl.	U metal	Rods	Magnox-A12 finned tubes

	Reactor coolant			Steam					
Moderator	Matl.	Exit °F	Exit psia	°F	psia	Turbine	Designer/builder	Owner/operator	Reactor
D_2O	D_2O	302	69	256	33	0	Institutt for Atomenergi	Institutt for Atomenergi	Halden
D_2O	D_2O	446	412	356	140	0			
H_2O	H_2O	547	1,000	Direct cycle		1	GE	Commonwealth Edison	Dresden
H_2O	H_2O	547	1,063	496	700	1	AEG/GE	Versuchsatomkraftverk, Kahl	Kahl
H_2O	H_2O	538	950	Boiler: 497 Sprhtr: 825	650 600	1	A-C	USAEC/Rural Co-op Power Assoc.	Elk River
H_2O	H_2O	590	1,410	Direct cycle		1	USSR	USSR	Volga
Graphite	H_2O	644 950	2,100 1,420	Direct cycle		1	USSR	USSR	Kurchatov
H_2O	H_2O	489	615	Direct cycle		1	A-C	N. States Power Co.	Sioux Falls
H_2O	Steam	825	550						
H_2O	H_2O	547	1,025	Direct cycle		1	GE	Pacific Gas & Elec. Co.	Humboldt
H_2O	H_2O	550	1,050	Direct cycle		1	GE	Consumers Power Co.	Big Rock Pt.
H_2O	H_2O	540	965	Direct cycle		1	Genl. Nuclear Engrg. Co.	AEC/P.R. Water Resrcs. Auth.	Bonus
H_2O	Steam	900							
H_2O	H_2O	532	905	530	495	1	GE	Japan At. En. Res. Inst.	Japan BWR
H_2O	H_2O	547	1,015	540	965	1	GE	SENN	SENN
H_2O	H_2O	?	?	?	?	1	A-C or GE	ASUEC/LADWP	Los Angeles
H_2O	H_2O	?	?	Direct cycle		1	A-C or GE	AB Atomkraftverk	AKV
H_2O	H_2O	—	Atmos.	Not applicable			PPCo./Whitney Bros.	USAEC/PPCo.	Spert-1
H_2O or D_2O	D_2O	—	375 max.	Not applicable			PPCo. & Stearns-Roger/Paul Hardeman, Inc.	USAEC/PPCo.	Spert-2
H_2O	H_2O	600 max.	2,500 max.	Not applicable			PPCo. & Stearns-Roger/Paul Hardeman, Inc.	USAEC/PPCo.	Spert-3
H_2O	H_2O	135 max.	Atmos.	Not applicable			PPCo., B. D. Bohna Engr./ Technical Constructors, Inc.	USAEC/Phillips Pet. Co.	Spert-4
Terphenyl	Terphenyl	609	215	Heat is dumped		0	AI	USAEC/AI	OMRE
Terphenyl	Terphenyl	575	89	550	450	Existing	AI	USAEC/City of Piqua	OMR
Santowax-R	Santowax-R	525–714	300 (variable)	No steam generated		0	AI & Fluor/C. F. Braun & Co.	USAEC/PPCo.	EOR
D_2O	Santowax-M	700	150	No steam generated		0	Canadian Genl. Elec. Co., Ltd.	AECL	OCDRE
H_2O in fuel	H_2O	482	1,000	385	200	1	ORNL(UC)	USAEC/ORNL	HRE-1
D_2O in fuel soln.	Fuel soln.	572	2,000	470	520	1	ORNL(UC)	USAEC/ORNL	HRE-2
H in fuel soln.	H_2O	800	3,600	800	3,600	0	LASL	USAEC/LASL	LAPRE-1
H in fuel soln.	H_2O	740	650	740	665	0	LASL	USAEC/LASL	LAPRE-2
D_2O	D_2O	?	?	?	?	?	USSR	USSR	Volga
None	NaK	601	15	529	405	1	ANL	USAEC/ANL	EBR-1
None	Na	900	~60	850	1,250	1	ANL	USAEC/ANL	EBR-2
None	Na-30K	662 617	45 45	525	200	1	UKAEA	UKAEA	DFR
None	Na	800	20	742	585	1	APDA	PRDC	Fermi
	Na	746	30						
None	Na	?	?	?	?	?	CEA	CEA	Rapsodie
	Na	842	?	?	?	?	USSR	USSR	BR-5
None	NaK	806	?						
None	Na	896	?	780	412	?	USSR	USSR	BR-50
None	Na	1,000	?	?	?	?	USSR	USSR	BR-350
?	Na	?	?	?	?	1	KAPL(GE)	USAEC/KAPL	S1G
?	Na	?	?	?	?	1	KAPL(GE)	U.S. Navy	S2G
Graphite	Na	960	18	825	615	1	AI	USAEC/AI	SRE
Graphite	Na	945	15	825	815	1	AI	USAEC/CPPD	SGR
Graphite	Na	932	118	932	1,320	1	USSR	USSR	Volga
ZrH in fuel	NaK	1,200	?	Mercury in boiler		?	AI	USAEC/AI	SNAP-2
ZrH in fuel	Na-30K	1,300	?	Mercury in boiler		?	AI	USAEC-NASA/AI	SNAP-8
ZrH in fuel	None	1,100 at reactor surface		Direct thermoelectric converters			AI	USAEC/AI	SNAP-10
None	Na	1,045	40	No steam generated			LASL	USAEC/LASL	LAMPRE-1
Graphite	CO_2	638	95	597	210	8	UKAEA	UKAEA	Calder Hall
Graphite	CO_2	638	95	597	210	8	UKAEA	UKAEA	Chapelcross
Graphite	CO_2	653	135	612	321	4	AEI-JT	CEGB	Berkeley

Reactor Table (Continued)

Reactor, Location	Date critical	Power (Mw) Thermal	Power (Mw) Elec. (net)	Effic. %	Loops/ reactor	Fuel Enr. %	Fuel Matl.	Fuel Shape	Fuel Cladding
Bradwell, (2), England	(6/'61)	531 × 2	150 × 2	28.2	3	Natl.	U metal	Rods	Magnox-A12 finned tubes
Hunterston, (2), Ayrshire, Scotland	(11/'62 & 6/'63)	535 × 2	150 × 2	28	4	Natl.	U metal	Rods	Magnox-A12 finned tubes
Hinkley Point, (2), England	(6/'62)	960 × 2	250 × 2	26	3	Natl.	U metal	Rods	Magnox-A12 finned tubes
Trawsfynydd, (2), Wales	(10/'63)	870 × 2	250 × 2	28.7	4	Natl.	U metal	Rods	Magnox-A12 finned tubes
Latina, (1), Italy	(6/'62)	705	200	28.4	4	Natl.	U metal	Rods	Magnox-A12 finned tubes
Japan GCR, (1), Tokai Mura, Japan	(6/'64)	570	158	27.7	4	Natl.	U metal	Tubes	Magnox-A12 finned tubes
Dungeness, (2), Kent, England	(10/'64)	835 × 2	275 × 2	33	4	Natl.	U metal	Rods	Magnox-A12 finned tubes
Sizewell, (2), Suffolk, England	(?)	?	275 × 2	?	?	Natl.	U metal	?	?
Oldbury, (?), Gloucestershire, England	(?)	?	550	?	?	Natl.	U metal	?	?
G1, Marcoule, France	1/7/'56	38	−7	NA	1	Natl.	U metal	Rods	Mg finned tubes
G2, Marcoule, France	7/'58	200	32	16	2	Natl.	U metal	Rods	Mg-0.7Zr finned tubes
G3, Marcoule, France	'59	200	32	16	2	Natl.	U metal	Rods	Mg-0.7Zr finned tubes
EDF-1, Chinon, France	(10/'61)	300	68	23	1	Natl.	U metal	Tubes	Mg finned tubes
EDF-2, Chinon, France	(10/'62)	791	198	25	4	Natl.	U metal	Tubes	Mg finned tubes
EDF-3, Chinon, France	(6/'64)	?	350–500	?	?	Natl.	?	?	?
EL-4, France	'65	?	100	?	?	Natl.	?	?	?
EDF-4, Finistere, France	(6/'66)	260	80	31	?	Core 1: Enr. Core 2: Natl.	UO_2 UO_2	Pellets Pellets	SS tubes Be tubes
HWGCR, Bohunice, Czechoslovakia	('63)	590	150 gross	<25	3	Natl.	U metal	Rods	Be-Mg alloy
Tampa, Florida	('65)	160	50	31	2	1.2	UO_2	Pellets	Be finned tubes
GCRE-1, NRTS, Idaho	Core 1: 2/23/'60 Core: 2: 9/'60	2.2	0	NA	1	93 93	$30UO_2$-SS316 UO_2 & $70UO_2$-BeO	Curved plates Pellets	6-mil SS-318 30-mil Hastelloy-X tubes
ML-1, NRTS, Idaho	(4/'61)	3.3	0.33	10	1	93	UO_2 & $70UO_2$-BeO	Pellets	30-mil Hastelloy-X tubes
AGR, Windscale, England	(4/'61)	100	27.3	27	4	1.2	UO_2	Pellets	SS or Be
EGCR, Oak Ridge, Tenn.	(11/'62)	85	22	28	2	2.5	UO_2	Pellets	SS-304 tubes
BORE, NRTS, Idaho	('63)	10	0	NA	1	50	UO_2	Pellets	Hastelloy
Dragon, Winfrith Heath, England	(2/'63)	20	0	NA	6	?	UC_2–ThC_2-C	Rings	Graphite
HTGR, Peach Bottom, Pa.	(12/'63)	115	40	35	1	93	UC_2–ThC_2-C	Rods	Graphite
Turret, Los Alamos, N.M.	(7/'62)	3	0	NA	1	93	UC_2 in graphite	Tubes	None
AVR, Juelich, W. Germany	('63)	48	15	31	In reactor	20	UC in graphite	Balls	Graphite
HTRE-1, NRTS, Idaho	1/'56–12/'56	17–20	0	NA	1	93.5	UO_2 in Ni-Cr	Cylinders	Ni-Cr
HTRE-2, NRTS, Idaho	2/'57	?	0	NA	1	93.5	UO_2 in Ni-Cr	Cylinders	Ni-Cr
HTRE-3, NRTS, Idaho	10/'58	32	0	NA	1	93.5	UO_2 in Ni-Cr	Cylinders	Ni-Cr
KIWI-A, NTS, Nevada	7/'59	?	?	?	?	?	U-graphite dispersion	Plates	Graphite
KIWI-A′ and -A3, NTS, Nevada	'60	?	?	?	?	?	Improved	?	?
TORY-2A, NTS, Nevada	?	?	?	?	?	?	?	?	?

REFERENCES, NOTES AND ABBREVIATIONS

Major sources of additional data on power reactors include: (a) "Nuclear Reactors Built, Building, or Planned in the United States," TID-8200 Revised (USAEC, Oak Ridge, Tennessee); (b) ASME compilation: "Nuclear Reactor Plant Data—Power Reactors" (McGraw-Hill Book Co., Inc., New York, 1959); (c) "Directory of Nuclear Reactors—Power Reactors" (International Atomic Energy Agency, Vienna, 1959), (d) "Gas-Cooled Reactors," Monograph No. 7 (Franklin Institute, Philadelphia, 1960). Particular references are given below.

Pressurized-Water-Cooled Reactors

APPR-1: Army Package Power Reactor; see also NU, 8/57; **APS-1:** Atomic Power Station No. 1; pressure tubes. **BR-3:** Belgian Reactor No. 3; **CANDU:** Canadian Deuterium Reactor; control by moderator level; **CVNPA:** Carolinas-Virginia Nuclear Power Associates; pressure tubes; **ELPHR:** Experimental Low-Temperature Process Heat Reactor; **Indian Point:** Additional 104 Mwe will be via oil-fired superheat; **Lenin:** One reactor is a reserve; **NCR:** Natural Circulation Reactor; **NPD:** Nuclear Power Demonstration Reactor; pressure tubes; control by moderator level; see also "Canada's First Nuclear Power Station," CGE, Peterborough, Ontario, Canada; **PM-1:** Portable Medium Power Reactor No. 1; air-cooled condensers are at 6,500 ft above sea level; **PM-2A:** Portable field power, air-transportable; **PM-3A:** Air-transportable; **PRTR:** Plutonium Recycle Test Reactor; see also HW-61236 and Supplement 1; **PWR:** Pressurized Water Reactor; see also NU, 4/58; **SSPWR:** Small Size Pressurized Water Reactor; **SELNI:** Societa Elettronucleare Italiana; **Siberia:** Pressure tubes; plutonium production; **R3:** Underground; steel plate and concrete containment; **R4:** Being designed; **Navy:** All the U. S. Navy propulsion reactors of the pressurized-water type reportedly have 2 loops/reactor (except for A1W, A2W, and C1W, which have 4), use zircaloy-clad 93% enriched U-Zr alloy plates (except for S3G and S4G, which are in the form of "ribbons"), have H_2O as moderator and coolant. The reactor coolant from early submarine reactors was at about 475° F and 2,000 psia; steam was at about 475° F and 215 psia. Of the prototype naval reactors, S1W ('53) and A1W (A: 10/21/58; B: 8/'59) are located at NRTS, Idaho, while S3G (5/18/'58) is at West Milton, N. Y., and S1C ('59) is at Windsor, Conn; D1G is scheduled to be built at West Milton, N. Y., and the prototype Natural Circulation Reactor (6/'62) at NRTS, Idaho. S2W (9/'54) is aboard the submarine *Nautilus;* S2W-A (8/'60) is aboard *Seawolf;* S3W type is on *Skate* ('57), *Sargo* ('58), and *Halibut* ('59); S4W type propels *Swordfish* ('58) and *Seadragon* ('59); S5W type propels about 20 *Skipjack* ('58) and *Thresher* class attack subs and 14 *G. Washington* ('59) *Ethan Allen* and *Lafayette* class fleet ballistic missile subs, as well as Britain's *Dreadnought* ('61); 8 A2W reactors will propel the carrier *Enterprise* ('61) and 2 will propel the cruiser *Long Beach;* 2 S4G type propel *Triton* ('59); 2 D2G reactors will propel the destroyer *Bainbridge;* 1 S2C propels *Tullibee.* Britain is building a Rolls-Royce-modified S5W prototype at Dounreay, Scotland; a later model will propel SSNO2, Britain's second nuclear submarine.

Boiling-Water-Cooled Reactors

ALPR: Argonne Low Power Reactor; see also ANL-5744; **Big Rock Point:** To 75 Mwe later; **Bonus:** Boiling Nuclear Superheat; see also TID-8524; **Borax:** Boiling Reactor Experiment; see also "Boiling Water Reactors," by A. Kramer, Addison-Wesley Publishing Co., Inc., 1958; **Borax-5:** Several core variations planned; nuclear superheat; see also ANL-6120; **Dresden:** Dual cycle; **EBWR:** Experimental Boiling Water Reactor; see also NU 7/'57 and ANL-5781 and addendum; **Elk River:** Indirect cycle; oil-fired superheater; **Halden:** Joint process-steam experimental program sponsored by OEEC; see also "Das OEEC Halden Reaktor Projekt HBWR," *Atom Wirtschaft* **5**, No. 3, 1960; **Humboldt Bay:** Natural circulation; **ICBWR:** Improved-cycle Boiling Water Reactor; Los Angeles Dept. of Water & Power; **Japan BWR:** Natural circulation; internal steam separation; **Kahl:** Indirect cycle, natural circulation; extension to 30 Mwe planned with forced circulation and semi-direct cycle; Core 2: 1964; see also proceedings of IAEA Conference on Small and Medium Power Reactors, Vienna, September, 1960; **Kurchatov:** Nuclear superheat; pressure tubes; **SENN:** Societa Ellettronucleare Nationale; dual cycle; **Sioux Falls:** Nuclear superheat; **Spert:** Special Power Excursion Reactor Test; see also IDO-16418; **VBWR:** Vallecitos Boiling Water Reactor; single and dual cycle, natural and forced circulation; see also NU 2/'58.

Organic-Cooled Reactors

See proceedings of Organic-Cooled Reactor Forum, Los Angeles, October, 1960.

	Reactor coolant			Steam					
Moderator	Matl.	Exit °F	Exit psia	°F	psia	Turbine	Designer/builder	Owner/operator	Reactor
Graphite	CO_2	347	214	703	770	6	NPPC	CEGB	Bradwell
Graphite	CO_2	764	160	720	550	6	GEC/SC	So. of Scotland Elec. Bd.	Hunterston
Graphite	CO_2	705	180	685	665	6	EEC/B&W/TW	CEGB	Hinkley Pt.
Graphite	CO_2	740	250	720	977	4	APC	CEGB	Trawsfynydd
Graphite	CO_2	734	197	703	770	3	NPP/AGIP	SIMEA	Latina
Graphite	CO_2	748	208	714	910	2	GEC/SC	Japan Atomic Power Co	Japan GCR
Graphite	CO_2	770	279	739	1,418	4	TNPG	CEGB	Dungeness
Graphite	CO_2	770	279	740	1,400	?	EEC/B&W/TW	CEGB	Sizewell
Graphite	CO_2	?	?	?	?	?	?	CEGB	Oldbury
Graphite	Air	275	15	220	15.5	1	CEA/SACM	CEA	G1
Graphite	CO_2	662	205	634	145	1	CEA/SACM	CEA	G2
Graphite	CO_2	662	205	634	145	1	CEA	CEA	G3
Graphite	CO_2	671	392	650	316	1	EDF	EDF	EDF-1
Graphite	CO_2	689	368	644	473	2	EDF	EDF	EDF-2
Graphite	CO_2	?	?	?	?	?	CEA	EDF	EDF-3
D_2O	CO_2	?	?	?	?	?	CEA	CEA	EL-4
D_2O	CO_2	932	870	?	853	?	CEA & EDF	CEA	EDF-4
D_2O	CO_2	797	850	752	410	3	USSR & CSR	Czech. Socialist Republic	HWGCR
D_2O	CO_2	1,050	500	950	1,465	1	Genl. Nuclear Engrg. Co., & AEPSC	Fla. W. Coast Nuclear Group	Tampa
H_2O	$N_2 + 0.5\%\ O_2$	1,200	186	N_2-H_2O-air dump		0	Aerojet	USAEC/Aerojet	GCRE-1
H_2O	$N_2 + 0.5\%\ O_2$	1,200	293	Direct cycle		1	Aerojet	USAEC/Aerojet	ML-1
Graphite	CO_2	932–1,067	265	850	665	1	UKAEA	UKAEA	AGR
Graphite	He	1,050	307	902	1,300	1	Kaiser Engrs., A-C, ORNL	USAEC/ORNL	EGCR
BeO	He	1,300–1,500	1,200	Closed-cycle gas turbine		1	Genl. Atomic	USAEC/Genl. Atomic	BORE
Graphite	He	1,380	291	Heat is dumped		0	UKAEA	UKAEA, ENEA	Dragon
Graphite	He	1,380	300	1,000	1,450	1	Genl. Atomic, Bechtel	High Temp. Reactor Dev. Associates	HTGR
Graphite	He	2,400	500	No steam generated		0	LASL	USAEC/LASL	Turret
Graphite	He	1,562	147	941	1,029	1	Brown Boveri and Co./Krupp	AVR	AVR
H_2O	Air	1,280–1,380	47	Direct air cycle		?	GE-ANPD	USAEC/GE	HTRE-1
H_2O	Air	Various	47	Direct air cycle		?	GE-ANPD	USAEC/GE	HTRE-2
ZrH	Air	1,335–1,600	46	Direct air cycle		?	GE-ANPD	USAEC/GE	HTRE-3
Graphite	H_2	?	?	Open cycle (rocket)		0	LASL	USAEC/LASL	KIWI-A
Graphite	H_2	?	?	Open cycle (rocket)		0	LASL	USAEC/LASL	KIWI-A′ & A3
?	Air	?	?	Open cycle (ramjet)		0	LRL	USAEC/LASL	TORY-A

OMRE: Organic Moderated Reactor Experiment; see also NU, 11/'59; **OCDRE**: Organic-Cooled Deuterium Reactor Experiment.

Homogeneous Reactors

HRE-1: Homogeneous Reactor Experiment No. 1; dismantled; **LAPRE**: Los Alamos Power Reactor Experiment; dismantled; see also LA-2292 and LA-1942.

Liquid-Metal-Cooled Reactors

BR-5: Breeder Reactor, 5 Mw; **DFR**: Dounreay Fast Reactor; only UK reactor to have special containment vessel; **Experimental Breeder Reactor No. 1**: NaK secondary circuit is at 583° F, 20 psia; see also ANL-5831; **EBR-2**: Na secondary is at 880° F; see also paper 1782 (p. 323 of vol. 9) of proceedings of the Second UN Geneva Conference, 1958; **LAMPRE-1**: Los Alamos Molten Plutonium Reactor Experiment; see also LA-2327; **SRE**: Sodium Reactor Experiment; see also NU 12/'57; **SGR**: Sodium Graphite Reactor; first sodium-cooled central-station reactor; see also paper presented at ASCE meeting, Reno, Nevada, June 23, 1960; **SNAP-2**: System for Nuclear Auxiliary Power; reactor operated continuously for 1,000 hr at design conditions; see also proceedings of the American Rocket Society Space Power Symposium, September 30, 1960; **SNAP-8**: Will be first space nuclear power unit to provide enough power to make electrical propulsion possible; see also proceedings of the International Astronautics Congress, Stockholm, August 15–20, 1960; **SNAP-10**: See also proceedings of the American Rocket Society Space Power Symposium, September 30, 1960.

Gas-Cooled Reactors

AVR: Arbeitsgemeinschaft Versuchs reaktor; pebble-bed reactor; **BORE**: Beryllium Oxide Reactor Experiment; see also IAEA 9/'60 meeting; **Calder—Oldbury**: All have vertical fuel channels, no special containment. Calder and Chapelcross were designed primarily for Pu production. Hunterston and Hinkley Pt. will have machines for on-power refueling. See also IAEA catalog; **G1, 2, 3**: Horizontal fuel channels, Pu production, no special containment; see also IAEA and 1958 Geneva Conference; **EDF-1, 2, HWGCR**: Vertical fuel channels, no special containment vessel; see also IAEA and Proceedings of the Second UN Geneva Conference, 1958; **AGR**: Advanced Gas Reactor; see also NU, 7/'60, p. 23; **EGCR**: Experimental Gas-Cooled Reactor; power plus test loops; see also ORO-196; **GCRE-1**: Gas-Cooled Reactor Experiment; prototype, pressure tubes, see also IDO-28506; **HTGR**: High Temperature Gas Reactor; prototype; see also NU 1/'60; **HTRE**: Heat Transfer Reactor Experiment; **Tampa**: Pressure-tube reactor; prototype; see also TID-7575 and TID-7564; **ML-1**: Mobile Low Power Reactor No. 1; prototype, air-transportable, see also IDO-28550; **Turret**: Experiment to test unclad fuel; see also NU 12/'59.

OTHER ABBREVIATIONS

A: Aircraft Carrier Reactor; **A-C**: Allis-Chalmers Manufacturing Co.; **ACEC**: Ateliers de Constructions Electriques de Charleroi; **AECL**: Atomic Energy of Canada Ltd.; **AEG**: Allgemeine Elektricitatgesellschaft; **AEI**: Associated Electrical Industries Ltd.; **AEPSC**: American Electric Power Service Co.: **AGIP**: Associazione Gas e Petrolio Italiana; **AI**: Atomics International Div., North American Aviation, Inc.; **AKV**: AB Atomkraftverk; **ANL**: Argonne National Laboratory; **APC**: Atomic Power Constructions Ltd.; **ASEA**: Allmana Svenska Electriska AB; **B&W**: Babcock & Wilcox Co.; **C**: Cruiser Reactor; **CEA**: Commissariat a l'Energie Atomique; **CEGB**: Central Electricity Generation Board; **CEN**: Centre d'Etudes Nucleaire; **CNRN**: Comitato Nazionale Ricerche Nucleari; **C or Comb. Eng.** Combustion Engineering; **D**: Destroyer Reactor; **EDF**: Electricite de France; **EEC**: English Electric Co., Ltd.; **G or GE**: General Electric Co.; **GEC**: General Electric Co. Ltd. of England; **HWGCR**: Heavy Water Gas Cooled Reactor; **JT**: John Thompson Nuclear Energy Co., Ltd.; **KAPL**: Knolls Atomic Power Laboratory; **LASL**: Los Alamos Scientific Laboratory; **LRL**: Lawrence Radiation Laboratory, Livermore; **NA**: "Not applicable"; **NCR**: Natural Circulation Reactor, **NPP**: Nuclear Power Plant Co., Ltd.; **NRTS**: National Reactor Testing Station; **OEEC**: Organization for European Economic Cooperation; **ORNL**: Oak Ridge National Laboratory; **S**: Submarine Reactor; **SACM**: Societe Alsacienne de Constructions Mechaniques; **SC**: Simon-Carves Ltd.; **SIMEA**: Societa Italiana Meridionale Energia Atomica; **SORIN**: Societa Ricerche Impianti Nucleari; **SS**: Stainless steel; **TNPG**: The Nuclear Power Group, **TW**: Taylor Woodrow Construction Ltd.; **UKAEA**: United Kingdom Atomic Energy Authority; **USAEC**: United States Atomic Energy Commission; **USN**: United States Navy; **W**: Westinghouse; **Zry**: Zirconium alloy, Zircaloy.

Reactor-

By STAN J. PAPROCKI and

FROM AMONG ALL materials of possible application in reactors, we chose those listed here on the basis of state of development and current interest.

The physical and mechanical properties in Tables 1–7, with the exception of Table 4, are based directly on experimental results and therefore are directly usable. Table 4 should be used with the realization that it is based on judgment as well as available data and also that such an abbreviated compilation can give only an indication of irradiation behavior. Tables 8–10, although derived from experimental and performance data, should be regarded as preliminary rather than final results and only as an indication of performance.

TABLE 1—Mechanical Properties of Fuel Materials

Fuel material[a]	*Test temp. (°F)*	*Ultimate tensile strength (10^3 psi)*	*Yield strength, 0.2% offset (10^3 psi)*	*Uniform elongation (%)*	*Total elongation (%)*	*Modulus of elasticity (10^6 psi)*	*Hardness (VHN)*
Unalloyed	RT	56–96	24–38	10–12	6–12	22–24	255
uranium(*1*)	570	35.0	18.0	40	33–49	16	104
	930	11.0	5–7	56	44–61	14	46
Alpha uranium alloys							
U-2.2 Zr(*4*)	RT	185.0	94.0	10.7	11.9	—	—
	932	49.0	43.0	89	21	—	—
U-2.4 Zr(*3*)	RT	133.0	47.3	21.0	18.0	27.0	283
	700	48.0	35.0	49	17	—	—
U-1.5 Mo(*1,5*)	1,130	24.0	19.0	16	10	—	—
	1,200	7.6	5.2	93	167	—	—
	1,292	3.6	2.0	97	225	—	—
Gamma uranium alloys							
U-10 Mo(*6*)	RT	141.8	138.6	1.5[b]	—	12.8	—
	RT	139.0	136.4	1.9[b]	—	12.2	—
	500[d]	94.0	90.0	8.0[b]	—	12.5	—
	850[d]	74.0	77.3	2.2[b]	—	11.5	—
	1,100[d]	63.0	54.0	2.3[b]	—	8–11	—
Dilute uranium alloys							
Zr-7 U[c](*57*)	RT	77.0	65.0	—	20	—	205
	300	70.0	62.0	—	12	—	190
	600	52.0	45.0	—	15	—	150
Zr-22 U(*57,58*)	RT	103.5	59.7	—	21	—	245
	750	67.3	43.7	—	14	—	165[d]
	930	48.0	36.9	—	3	—	135[d]
Al-16 U(*1,14*)	RT	20.0	11.4	—	28	~10.6	60
	300	14.0	7.0	—	34	—	—
	570	8.4	—	60	34	—	—
Al-25 U(*1,14*)	RT	23.0	—	1.2	—	—	55
	300	—	—	—	—	—	44
	570	—	—	—	—	—	30
Al-35 U(*140*)	RT	—	—	—	—	—	70
	212	18.6	15.5	3.3	4.5	—	58
	400	12.7	10.3	4.4	9.0	—	50
	750	5.1	3.7	18.3	10.6	—	19
Nb-10 U(*59*)	RT	77.9	76.8	—	3.0	15.5	164
	1,600	49.5	33.9	—	13.0	—	95
	2,000	35.3	25.4	—	9.0	—	—
Nb-20 U(*59*)	RT	102.0	93.2	—	7.0	20.3	243
	1,600	68.4	58.1	—	10.0	—	138
	2,000	37.5	28.6	—	74.0	—	—
Thorium alloys							
Th-5 U(*60*)	RT	39.0	28.0	—	23[e]	—	135
	1,112	16.0	12.0	—	44[e]	—	45
	1,292	12.0	6.6	—	51[e]	—	28
Th-10 U(*60*)	RT	38.0	27.0	—	13.5[e]	—	140
	1,112	18.0	14.0	—	41[e]	—	47
	1,292	10.0	8.0	—	44[e]	—	38
Th-10 U-1.5 Mo(*60*)	RT	41.0	26.0	—	15[e]	—	120
	1,112	18.0	11.0	—	43[e]	—	73
	1,292	12.0	11.0	—	50[e]	—	54
Th-10 U-0.1 Be(*60*)	1,292	11.0	9.0	—	47[e]		42
Plutonium alloys							
Al-1.65 Pu[f](*17*)	RT	13.1	7.2	81.7	37.5		25.1
Al-10 Pu[f](*17*)	RT	20.8	10.3	36.4	27.4		40.6
Al-20 Pu[f](*17*)	RT	20.4	11.0	24.5	14.1		23.6
Metallic dispersions							
SS-30 UO_2, unclad as sintered (*1*)							
302 SS	RT	37.0	26.4	—	4		—
304 SS	RT	24.0	17.0	—	5		—
316 SS	RT	40.7	29.7	—	7		—
347 SS	RT	31.5	23.6	—	5		—
347 SS	RT	34.4	26.3	—	3		—
SS-30 UO_2(*20*)	RT	21.8	—	—	—		—
clad transverse to	1,000	13.7	—	—	—		—
rolling direction	1,300	12.3	—	—	—		—
SS-30 UO_2(*20*)	RT	47.0	—	—	12		—
clad longitudinal	1,350	25.8	—	—	9		—
to rolling	1,650	11.7	—	—	12		—
direction							
SS-28 UN(*155*)	RT	59.8	—	—	15		—
	1,350	32.0	—	—	10		—
	1,650	15.1	—	—	8		—
Al-30 UO_2(*144*)	RT	10.8	6.71	—	7		—
Compounds							
UO_2(*23,61,62*)	RT	8–12	—	brittle	—		670[m]
	2,120	8–20	—	brittle	—		—
UC(*28*)	RT	54.5	—	0.17	0.17		700[m]
U + 7 C as-cast(*28*)	RT	—	—	—	—		800[m]
U_2C_3(*28*)	RT	—	—	—	—		1,200[m]
UC_2(*28*)	RT	—	—	—	—		500[m]
50 PuO_2 in UO_2(*63*)	RT	—	—	—	—		379–484[g]
Ceramic dispersions							
Graphite(*130*)	RT	15.8[h]	6.6[k]	—	—		—
−3.8UO_2(*130*)	RT	18.6[h]	5.47[k]	—	—		—
−5 UO_2(*131*)	RT	—	—	—	—		—
−11.7 UO_2(*130*)	RT	18.99[h]	5.07[k]	—	—		—
−19.9 UO_2(*130*)	RT	14.4[h]	4.27[k]	—	—		—
−3.9 UC(*130*)	RT	9.06[h]	5.14[j]–3.8[k]	—	—		—
−11.7 UC(*130*)	RT	8.30[h]	4.47[j]–3.4[k]	—	—		—
−20.8 UC(*130*)	RT	5.57[h]	3.44[j]–2.06[k]	—	—		—
−23.7 UC(*130*)	RT	5.52[h]	2.28[k]	—	—		—
−30.3 UC(*130*)	RT	5.94[h]	4.23[k]	—	—		—
BeO-10 UO_2(*133*)	RT	155.0–188.0[h]	—	—	—		—

Notes:

a. Composition in weight percent.
b. % elongation in 2 in.
c. Heat treatment 24 hr at 900° C; w.q.
d. Interpolated values.
e. Elongation in 1 in.
f. Extruded at 400° C.
g. Values vary from surface to interior of sintered compact.
h. Compressive strength.
j. Flexural strength with grain.
k. Flexural strength against grain.
m. Units in KHN.

Materials Properties

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TABLE 2—Physical Properties of Fuel Materials

Fuel material (composition in w/o)	U, Pu density (gm/cm³)	Material density (gm/cm³)	Crystal structure[a]	Thermal conductivity (cal/sec/cm/°C) RT	Thermal conductivity (cal/sec/cm/°C) 1,500° F	Melting point (°F)	Macroscopic cross section thermal energy (53) Absorption Σ_a cm⁻¹	Macroscopic cross section thermal energy (53) Fission Σ_f cm⁻¹	Σ_f/Σ_a	Thermal expansion (in./in./F° × 10⁻⁶)	Refs.
Unalloyed uranium	19.04	19.04	α, RT–660° C, orth β, 660–760° C, tet γ, 760–mp, bcc	0.071	0.112	2,070	0.370	0.200	0.541	11.37(30–1,200° F)	1,2
Alpha-uranium alloys											
U-2 Zr	18.5	18.6	orth	0.053	0.115	2,060	0.354	0.190	0.538	8.0(105–930° F)	3,4
U-1.5 Mo	18.4	18.55	orth	0.056	—	2,066	0.360	0.189	0.525	8.45(210–750° F)	1,5
Gamma-uranium alloys											
U-10 Mo	15.3	17.00	bcc	0.111–0.395	—	2,280	0.326	0.161	0.494	10.3(70–210° F) 13.8(70–930° F)	6
Dilute uranium alloys											
Zr-7 U	0.48	6.86	α Zr hex + ε Zr hex	0.026[b]		3,250	0.0160	0.00500	0.296	14.8(70–1,380° F)	7,9
Zr-22 U	1.64	7.45	α Zr hex + ε Zr hex	0.023	0.063	3,100	0.378	0.172	0.455	13(70–1,020° F)	8,9
Al-16 U	0.458	2.87	UAl_4 orth, Al fcc	[c]	—	1,185	0.0212	0.00682	0.322	13.5	1,14
Al-25 U	0.820	3.28	UAl_4 orth, Al fcc	[c]	—	1,185	0.0284	0.00800	0.303	12.8	1,14
Al-35 U	1.39	3.9	UAl_4 orth, Al fcc	0.355	—	1,166	0.0394	0.0144	0.365	10.5	139
Nb-10 U	0.906	9.06	bcc	—	0.108	—	0.0787	0.00952	0.121	4.7(68–1,800° F)	10
Nb-20 U	1.92	9.61	bcc	—	0.096	—	0.0950	0.0202	0.212	5.0(68–1,800° F)	10
Thorium alloys											
Th-5 U	0.95	11.8	fcc	—	0.107	2,000	0.232	0.0062	0.0268	6.55[d](392–1,247 ° F)	11–13
Th-10 U	1.9	12.0	fcc	—	0.105	2,000	0.234	0.0126	0.0538	7.22(392–1,652° F)	11,12,15
Th-10 U—1.5 Mo	1.9	12.0	fcc	—	~0.105°	~2,000°	0.234	0.0126	0.0538	~7.22[e]	—
Th-10 U—0.1 Be	1.9	12.0	fcc	—	~0.105°	~2,000°	0.234	0.0126	0.0538	~7.22[e]	—
Plutonium alloys											
Al-2 Pu	0.055	2.74	Al + $PuAl_2$	0.57	—	1,202	0.172	0.101	0.588	15.6(104–1,112° F)	1,16,17
Al-10 Pu	0.294	2.9	Al + $PuAl_4$	0.54	—	1,202	0.850	0.534	0.628	14.3(79–1,114° F)	1,16,17
U-20 Pu-10.8 Fs[f]	3.32(Pu)	16.6	γ solid sol.	0.0347	—	1,706	9.79	6.22	0.636	9.3(68–930° F)	1,18,19
Metallic dispersions											
SS-25 UO_2	1.9	8.5	UO_2—cubic, SS—fcc	—	—	2,550–2,600	0.248	0.0197	0.0794	10.7–11.0(RT–1,700° F)	12,20
SS-30 UO_2	2.3	8.6	UO_2—cubic, SS—fcc	—	—	2,550–2,600	0.243	0.0239	0.0984	—	1
SS-28 UN	2.4	9.0	UN—fcc	—	—	2,550–2,600	0.272	0.0250	0.0919	—	155
Al-30 UO_2	0.9	3.5	Al—fcc	—	—	reacts	0.0304	0.00974	0.320	—	144
Al-60 UO_2	2.6	4.9	—	—	—	reacts	0.0598	0.0273	0.457	—	144
Compounds											
UO_2	9.66	10.96	cubic (CaF_2 type)	—	0.009	5,000	0.188	0.102	0.542	5.6(RT–1,832° F)	21–24
UC	13.0	13.6	fcc (NaCl type)	0.06	0.05	4,440	0.252	0.136	0.539	6.3(70–1,740° F)	25,26,28
U_2C_3	12.0	12.9	complex bcc	—	—	3,180	0.238	0.128	0.538	—	25,26,28
UC_2	10.7	11.7	tet (CaC_2 type)	—	—	4,580	0.206	0.112	0.543	—	25,26,28
PuC	13.1	13.6	fcc (NaCl type)	—	—	3,000	37.3	23.8	0.638	—	27
ThO_2-6.5 UO_2	0.523	9.15	fcc	—	—	5,880	0.157	0.00551	0.0351	—	29
ThO_2-10 UO_2	—	—	fcc	—	—	5,880	0.157	0.00847	0.0540	—	30
PuO_2	10.1	11.46	fcc	0.0149[g]	0.0065	2,240–2,280	28.8	18.6	0.646	9.0	31–34
Ceramic dispersions											
Graphite	0	1.70	hex	0.11	—	[h]	0.000291	—	—	—	130
Graphite-3.8 UO_2	0.067	1.75	—	0.048	—	[h]	0.00143	0.000614	0.429	—	130
Graphite-5 UO_2	0.088	1.76–1.66	—	—	—	[h]	0.00174	0.000792	0.456	—	131
Graphite-11.7 UO_2	0.220	1.88	—	0.042	—	[h]	0.00404	0.00203	0.502	—	130
Graphite-19.9 UO_2	0.384	1.93	—	0.043	—	[h]	0.00653	0.00355	0.520	—	130
Graphite-3.9 UC	0.069	1.78	—	0.11	—	[j]	0.00157	0.000694	0.442	—	130
Graphite-11.7 UC	0.221	1.89	—	0.13	—	[j]	0.00437	0.00221	0.506	—	130
Graphite-20.8 UC	0.414	1.99	—	0.14	—	[j]	0.00794	0.00414	0.522	—	130
Graphite-23.7 UC	0.495	2.09	—	0.15	—	[j]	0.00942	0.00495	0.524	—	130
Graphite-30.3 UC	0.673	2.22	—	—	—	—	0.0127	0.00673	0.530	—	130
BeO-10 UO_2	0.3	2.9–3.0[k]	[m]	0.20–0.25	—	[n]	0.00579	0.00278	0.480	—	133
BeO-47 UO_2	1.9	3.2–3.6[k]	[m]	—	—	[n]	0.0278	0.0148	0.533	—	156
BeO-70.9 UO_2	3.6	4.8–4.9[k]	[m]	—	—	3,940[n]	0.0598	0.0321	0.537	7.07(212–752° F)	152,156,157

Notes:

a. Crystal-structure abbreviations: orth = orthorhombic, tet = tetragonal, hex = hexagonal, bcc = body-centered cubic, fcc = face-centered cubic.

b. Interpolated value.

c. Increasing uranium content from 12.5 to 30 w/o decreases thermal conductivity ~17%.

d. Data are for thorium.

e. Approximated from Th-10 w/o U data.

f. Composition of fissium alloy is Ru-26 w/o Mo-23 w/o Pd-6 w/o Re-5 w/o Zr.

g. Values reported for UO_2-PuO_2 mixture in 5:1 ratio.

h. Reaction between UO_2 and graphite limits high-temperature application of UO_2 as fuel; conflicting reaction temperatures, as low as 1,500° F (*142*) and as high as 3,300° F (*143*), have been reported.

j. UC unstable in graphite matrix, being converted to U_2C_3 and finally UC_2 between 2,300° F and 2,700° F. UC re-formed by regulating cooling rate.

k. Strongly sensitive to ceramic processing variables.

m. BeO-UO_2 forms a eutectic at 68 mole per cent BeO. There are no compounds or solid solutions in this system (*157*).

n. Eutectic melting temperatures (*5*).

TABLE 3—Irradiation Parameters

Fuel material[a]	Swelling temperature[b] (°F)	Burnup (total a/o)[c]	Refs.
Unalloyed uranium[d]	Maximum swelling about 750° F	<1%	*85,103*
U-2 Zr	>550, ~660	0.6	*1,105*
U-1.5 Mo	~1,000	0.2–0.3	*106*
Zr-7 U	900	2.0	*104*
Zr-22 U	900	1.9	*104*
Th-5 U	>1 000	>850 Mwd/ton	*107*
Th-10 U	~1,200	1.0	*107*
U-20 Pu-10 Fs	750–840[e]	—	*91*
Al-1.65 Pu	[g] >622	0.19	*17*
Al-5 Pu	>720	>0.2	*108*
Al-10 Pu	—	>0.1	*109*
Al-20 Pu	—	>0.1	—
SS-25 to	600	45[m]	*154*
30 UO_2	900	28[m]	*154*
	1,100	21[m]	*154*
	1,300	13[m]	*154*
	1,500	9[m]	*154*
	1,700	5[m]	*154*
SS-28 UN	1,500–2,000	3–5	*110,111*
UO_2	[f]	6.8 a/o U[gh] 2.3 total a/o at 1,000–1,200° F	*112*
UC[j]	—	>1.5	*113*
PuO_2[k]	3,420	No data	*114*

Notes:

a. Compositions are in weight percent.

b. Temperature above which fuels cannot operate because of severe swelling; swelling temp. is flux dependent.

c. Highest burnup below swelling temperature which a material has successfully achieved in a test or as an actual fuel element; lower burnups can be tolerated above swelling temperature.

d. Unalloyed uranium with small grains that are randomly oriented have the best resistance to dimensional changes during irradiation; the mechanical properties change, and thermal conductivity decreases.

e. A significant improvement in irradiation behavior has been noted when plutonium content is decreased to 10 w/o.

f. Under special conditions, swelling has been observed in UO_2 when used as a dispersion-type fuel and after high burnups. Swelling is not ordinarily encountered when fission gases escape from the UO_2.

g. Swelling begins to occur at this burnup when operated at low temperatures, but the limiting burnup at higher temperatures is unknown.

h. Uranium dioxide undergoes very little volume change or density change during irradiation. Its principal problems in irradiation are the escape of significant amounts of fission gases at high temperatures. Containment of fission gases is minimized by keeping the composition at $UO_{2.00}$ (stoichiometric).

j. At an average centerline temperature of 1,200° F and an estimated burnup of ~1.5 total a/o, uranium monocarbide specimens have shown density decreases of only 3–5%.

k. In the lack of data or irradiation of PuO_2 the best general assumption, based on isomorphous behavior between PuO_2 and UO_2, is that PuO_2 will have approximately the same stability as UO_2.

m. Burnup given in total uranium atoms.

TABLE 4—Creep and Rupture Properties of Fuels

Fuel material[a]	Temp. (°F)	Stress (10^3 psi) for creep rate of: 1% in 1,000 hr	1% in 10,000 hr	1% in 100,000 hr	Stress (10^3 psi) for rupture in: 100 hr	1,000 hr	10,000 hr	Refs.
Unalloyed uranium	212	63.0	57.0	46.0	—	—	—	*85*
	482	37.0	37.0	34.0	—	—	—	
	752	10.5	—	—	—	—	—	
	932	3.0	2.0	—	—	—	—	
Alpha-uranium alloys								
U-2 Zr	905	10.0[b]	9.0[c]	—	—	—	—	*86*
	1,112	3.0[b]	—	—	—	—	—	
U-1.5 Mo	905	—	20.0[c]	—	—	—	—	*86*
	1,112	4.0[b]	1.3[c]	—	—	—	—	
Gamma-uranium alloys								
U-10 Mo	930	—	—	—	15.0 (283.7 hr)	—	—	*6*
Dilute uranium alloys	1,100	—	—	—	3.0 (312.0 hr)	—	—	
Zr-22 U	750	30.0	18.0	—	—	—	—	*58*
	840	15.0	8.4	—	—	—	—	
	930	8.4	5.5	—	—	—	—	
Al-16 U	300	4.4	3.4	2.62	—	—	—	*14*
Al-25 U	RT	—	—	—	—	—	—	*14*
Al-35 U	400	8.2	—	—	9.8	8.3	—	*90*
Nb-10 U	1,600	—	—	—	22.0	—	—	*10*
Nb-20 U	1,800	—	—	—	18.0	—	—	*10*
Th-5 U	1,112	—	4.9[c]	—	—	—	—	*60*
	1,292	3.1[b]	1.7[c]	—	—	—	—	
Th-10 U	1,112	—	3.6[c]	—	—	—	—	*60*
	1,292	2.1[b]	1.05[c]	—	—	—	—	
Th-10 U-1.5 Mo	1,112	—	5.8[c]	—	—	—	—	*60*
	1,292	3.3[b]	1.7[c]	—	—	—	—	
Th-10 U-0.1 Be	1,112	—	6.3[c]	—	—	—	—	*60*
	1,292	3.7[b]	1.9[c]	—	—	—	—	
Dispersions								
SS-25 UO_2	1,650	—	—	—	2.8	1.8	1.2	*20*
SS-28 UN	1,650	—	—	—	4.2	—	—	*20*

Notes:

a. Compositions are weight percent.

b. Creep rate 0.1%/hr.

c. Creep rate 0.01%/hr.

* * *

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TABLE 5—Mechanical Properties of Structural Materials

Material[a]	Test temperature (°F)	Ultimate tensile strength (10^3 psi)	Yield strength, 0.2% offset (psi)	Uniform elongation (%)[b]	Total elongation (%)	Modulus of elasticity (10^6 psi)	Hardness (VHN)	Refs.
Steels								
310 stainless	RT	80.0	35.0	50[b]	40	30	180 max	*1,35*
	1,300	45.3	20.5	44[b]	30	21.2	—	
	1,500	25.4	16.5	45[b]	42	19.8	—	
316 stainless	RT	75.0	30.0	50[b]	40	29	200 max	*1,35*
	1,300	46.0	19.5	58[b]	42	22	—	
	1,500	27.5	18.5	55[b]	42	21.3	—	
347 stainless	RT	85.0	35.0	50[b]	40	29	200 max	*1,35*
	1,300	40.0	24.0	74[b]	51	20.7	55[c]	
	1,500	23.0	19.5	92[b]	76	19.4	43[c]	
Chromium								
70Fe-25Cr-5Al	RT	100.0	—	—	17	—	200	*36,64*
	930	72.5	—	—	23.5	—	9	
	1,830	3.6	—	—	90.8	—	—	
chromium (high-purity iodide)	RT	60.0	52.5	—	44	42	220	*65*
chromium (commercial, electrolytic, recrystallized)	RT	12.0	—	—	0	—	—	*66*
chromium (commercial, electrolytic, wrought)	900	40.0	30.0	—	19	—	—	*67*
	1,900	10.0	10.0	—	104	—	—	
60Cr-40Fe	RT	115.0	100.0	—	4	33	340	*65*
60Cr-25Fe-15Mo	RT	—	—	—	—	—	455–579	*39*
	1,290	—	—	—	—	—	376	
	1,350	100.0	—	—	—	—	—	
	1,700	—	—	—	—	—	141–180	
Nickel base								
Inconel-702	RT	142.0	82.0	—	38	31.5	—	*41,43*
	1,000	120.0	74.0	—	40	27.2	—	
	1,800[d]	18.0	10.0	—	95	20.8	—	
Hastelloy-X	RT	113.2	55.8	—	43	28.6	R_B-90	*42*
	1,200	83.0	40.7	—	37	22.5	—	
	1,800	21.0	17.0	—	43	—	—	
	2,300	3.3	—	—	21	—	—	
Zirconium								
Sponge	RT	63.3	37.5	10.2–13	21–30	12–13.9	90	*44*
	500	28.0	10.5	20–22	35–50	8.5–9.5	52	
	932	10.5	6.2	15	65	5.8	26	
Zircaloy-2	RT	71.0	43.5	40[b]	26	14.1	203	*68–70*
	500	36.2	18.0	63[b]	41	11.5[c]	—	
	932	19.5	13.8	—	42.1	9.2[c]	65	
Zircaloy-4	RT	72.2	42.2	—	15	—	—	*71*
	500	35.7	21.6	—	39	—	—	
Niobium								
Unalloyed	RT	48.4	36.0	18.1	48	—	—	*72*
	1,200	22.1	10.0	15.5	43	—	—	
	2,000	10.0	8.0	8.8	34	—	—	
Nb-0.7Zr	RT	47.0	—	—	20	15	—	*51*
	2,000	13.0	—	—	10	—	—	
Nb-15W-5Mo-1Zr-0.050–0.05C	RT	125.0	—	—	25	25	—	*52*
	2,000	64.0	—	—	18	—	—	
	2,200	50.0	—	—	22	—	—	
Aluminum								
Unalloyed	RT	12.0	4.0	—	—	10	—	*81,82*
	400	6.0	3.0	—	—	—	—	
1100	RT	13.0	5.0	—	45	10	23 BHN	*145*
	212	11.9	4.2	—	—	9.7	—	
	400	6.0	3.0	—	—	9	—	
6063	RT	30.0	25.0	—	12	10	65 BHN	*145*
M388	RT	—	—	—	—	—	—	
	212	—	—	—	—	—	—	
	400	—	—	—	—	—	—	
SAP-13Al_2O_3	RT	50.0	35.6	—	10	10	—	
	212	41.0	35.0	—	10	9.5	—	
	400	32.0	30.4	—	8	9	—	
Magnesium								
Unalloyed[e]	RT	33.0	18.5	—	8	6.5	R_E 59	*73*
	300	16.5	6.9	—	21	6.2	—	
	500	7.1	3.4	—	56	5.8	—	
Mg-1.2Mn-0.14Ca	RT	37.0	26.0	—	11	6.1	45	*1*
	300	21.0	16.0	—	19	5.4	—	
	600	9.0	5.0	—	93	2.0	—	
Mg-6Zn[f]	RT	53.0	44.0	—	11	—	84	*1*
	400	15.0	12.0	—	84	—	—	
	500	6.0	4.0	—	177	—	—	
Beryllium, QMV	RT	44.2	36.4	0.8	—	31	375–425	*1,74*
	800	21.6	18.6	3.8–9.6	—	30.7–38.8	165–200	
		29.4	22.8					
	1,600	1.5	1.4	5	—	2.6	0–100	

Notes:

a. Compositions are in weight percent.
b. Percent reductions in area are given for stainless steels and Zircaloy-2.
c. Extrapolated from data on Type 304 stainless.
d. Becomes embrittled in temperature range of 1200 to 1600° F.
e. Extruded.
f. Aged.

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TABLE 6—Physical Properties of Structural Materials

Material (compositions in w/o)	*Density (gm/cm³)*	*Crystal structure*	*Thermal conductivity (cal/sec/cm/°C)*	*Melting point (°F)*	*Macroscopic absorption cross section, Σ_a (cm⁻¹)*	*Thermal expansion (in./in./°F × 10⁻⁶)*	*Refs.*
Steels							
310 stainless	8.03	fcc	0.039 (212° F)	2,550	0.288	8.0 (68–212° F)	*35*
316 stainless	8.03	fcc	0.033 (212° F)	2,500	0.265	8.8 (68–212° F)	*35*
347 stainless	8.03	fcc	0.038 (212° F)	2,550	0.261	8.3 (68–212° F)	*35*
Iron-chromium-aluminum							
70Fe-25Cr-5Al	7.0	bcc	0.03 (RT)[a]	2,720	0.204	8.1 (RT)	*36*
Chromium							
Unalloyed	7.2	bcc	0.16 (RT)	3,400	0.209	3.45 (RT)	*37*
60Cr-40Fe	7.46	bcc	—	2,800	0.217	—	*38*
60Cr-25Fe-15Mo	7.63	bcc	—	3,000[b]	0.254	4.03 (RT)	*39*
Nickel base							
Inconel-702	8.37	fcc	—	2,400	0.336	6.55 (80–200° F)	*41*
Ni-15Cr-2Fe-3Al-1Ti-0.8Mn -1(Si + C)						9.25 (80–1,600° F)	
Hastelloy-X	8.23	fcc	0.023 (68° F)	2,350	0.294	7.70 (79–200° F)	*42, 43*
Ni-22Cr-19Fe-9Mo			0.065 (1,652° F)			8.39 (79–1,000° F)	
0.5W-0.8Mn-1(Si + C)						9.20 (79–1,800° F)	
Zirconium							
Sponge							
20° C	6.51	—	0.0497 (50° C)	3,366	0.000775	4.95 (RT–700° F)	*44*
862° C (alpha)	6.39	hex	0.0483 (100° C)	—	0.000761	—	
862° C (beta)	6.44	bcc	0.0463 (200° C)	—	0.000767	—	
			0.0449 (300° C)				
			0.0439 (400° C)				
Zircaloy-2							
20° C	6.57	—	0.0306 (50° C)	3,360	0.00236	6.5 (RT–700° F)	*44–46*
			0.0320 (100° C)				
			0.0350 (200° C)				
			0.0371 (300° C)				
			0.0404 (400° C)				
			0.0434 (500° C)				
Zircaloy-4	Should be similar to Zircaloy-2				0.00185		
Niobium							
Unalloyed	8.57	bcc	0.13	4,380	0.0643	3.8 (0–1,800° F)	*47–50*
Nb-0.7Zr	8.60	bcc	—	4,350	0.0672	—	*51*
Nb-15W-5Mo-1Zr-0.05O -0.05C	9.4	bcc	0.094	4,500[b]	0.171	4.9 (75–2,100° F)	*52*
Aluminum							
99.99Al	2.7	fcc	0.49	1,220	0.0138	13.2	*1, 14, 38, 5*
6063	2.70	fcc	0.48	1,080	0.0256	13.1	*1, 14, 38*
M388	2.73	fcc	—	—	0.0153	—	*1, 14, 38*
SAP-13Al_2O_3	2.7	—	0.400	softens at 1,220	0.0120	11.1	*1, 14, 38*
Magnesium							
Unalloyed	1.74	hex	0.376 (212–572° F)	1,202	0.00272	14.5 (RT)	*1*
Mg-1.2Mn-0.14Ca	1.76	hex	0.30 (212–572° F)	1,198–1,200	0.00577	14.5 (RT)	*1*
Mg-6Zn	1.83	hex	0.28 (212–572° F)	970–1,175	0.00381	14.5 (RT)	*1*
Beryllium							
Unalloyed sintered powder	1.84	hcp	3.5 (RT)	1,285	0.000123	6.4 (RT)	*1, 54–56*
						12.4 (1,200° F)	

Notes:
a. Value for 75Fe-20Cu-5Al. b. Estimated.

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TABLE 7—Creep and Rupture Properties of Structural Materials

Material[a]	Temp. (°F)	Stress (10^3 psi) for creep rate of: 1% in 1,000 hr	1% in 10,000 hr	1% in 100,000 hr	Stress (10^3 psi) for rupture in: 100 hr	1,000 hr	10,000 hr	Refs.
Steels—310 SS	1,000	27.5[b]	18.0	11.8	42.0[b]	32.0	24.0	75
	1,300	7.3[b]	5.0	3.4	14.5[b]	8.4	4.9	
	1,500	1.3[b]	1.0	0.8	6.8[b]	3.5	1.8	
316 SS	1,000	41.0[b]	24.2	14.8	58.0[b]	40.0[b]	33.0[b]	75, 76
	1,300	16.0[b]	7.9	3.8	21.0	17.5	12.0	
	1,500	6.0[b]	2.8	1.3	8.0	6.6	3.4	
347 SS	1,000	38.0[b]	32.0	27.0	54.0	48.0	38.0	76
	1,300	17.0[b]	9.0	5.0	20.0	14.0	11.0	
	1,500	4.0[b]	2.0	1.0	7.5	4.5	2.5	
70Fe-25Cr-5Al	1,800	—	—	—	2.54	—	—	77
	2,200	—	—	—	0.1[b]	—	—	
Chromium	1,400	—	—	—	15.5	15.0	—	67
	1,800	—	—	—	7.5	—	—	
	2,200	—	—	—	2.0	—	—	
60Cr-40Fe	1,500	—	—	—	10.0	—	—	78
60Cr-25Fe-15Mo	1,600	—	—	—	20.0	—	—	39
Nickel-base alloys								
Inconel-702	1,200	—	—	—	56.0	43.0	—	43
	1,500	—	—	—	15.0	9.0	—	
	1,800	—	—	—	3.2	2.5	—	
Hastelloy-X	1,200	—	16.5	12.0	42.0	31.0	—	42, 43
	1,500	—	8.5	7.0	14.0	9.5	—	
	1,800	—	—	—	3.4	—	—	
Zirconium, unalloyed	500	14.8	14.0	—	—	—	—	44
	600	12.8	11.9	—	17.0	16.0	—	
	750	9.0	7.0	—	—	—	—	
Zircaloy-2	450	22.5	22.0	—	24.0	23.0	—	69, 70, 79
	650	21.8	19.0	—	21.8	21.8	21.8	
	800	10.5	9.5	—	17.0	15.0	—	
	932	6.2	4.0	—	11.4	7.2	—	
Zircaloy-4	Based on tensile properties of Zircaloy-2; creep properties of Zircaloy-2 and -4 should be similar							
Niobium, unalloyed	1,110	11.2	—	—	—	—	—	10, 80
	1,800	—	—	—	8.2	—	—	
	2,200	—	—	—	4.0	—	—	
	2,300	—	—	—	6.0	5.8	—	
Nb-0.7Zr	1,800	—	—	—	33.0	22.0[b]	—	51
	2,000	—	—	—	18.8	16.0[b]	—	
Nb-15W-5Mo-1Zr-0.05O-0.05C	2,000	22.0	—	—	35.0	31.0	—	52
	2,200	—	—	—	17.0	12.0	—	
	2,400[b]	—	—	—	8.0	5.0	—	
Aluminum, unalloyed	RT	—	—	—	—	—	—	81, 82
	212	4.0	—	—	6.0	4.0	—	
	400	1.0	—	—	2.0	1.0	—	
1100	RT	—	—	—	11.5	10.75	—	81, 82
	212	—	—	—	7.75	6.5	—	
	400	—	—	—	3.0	2.5	—	
6063	RT	34.5	33.5	—	37.0	34.0	—	81, 82
	212	26.0	25.0	—	29.5	28.0	—	
	400	7.0	3.5	—	12.5	8.0	—	
M388	RT	—	—	—	—	—	—	81, 82
	212	—	—	—	—	—	—	
	400	—	—	—	—	—	—	
SAP-13Al_2O_3	RT	—	—	—	—	—	—	81, 82
	212	—	—	—	—	—	—	
	400	—	—	—	24.0	22.0	—	
Magnesium, unalloyed[g]	RT	—	—	—	22.8	20.0	—	73
	212	15.2	10.2	6.5	10.1	8.5	—	
	400	4.2	2.3	1.4	4.0	2.4	—	
	570	1.1	0.5	0.2	—	—	—	
Mg-1.2Mn-0.14Ca[f]	200	12.0[d]	6.0[e]	—	—	24.3[d]	—	1
	300	5.9[d]	2.6[e]	—	—	12.2	—	
Mg-6Zn[d]	200	5.8[d]	—	—	—	—	—	1
Beryllium, hot-pressed powder compacts	800	15.0	10.0	—	18.0	13.0	10.5[g]	83, 84
	1,000	6.0	4.1	—	5.0	4.3	4.0[g]	
	1,200	3.5	2.1	—	2.5	2.15	2.0[g]	
	1,350	2.0	0.8	—	0.95	0.8	0.72	
	1,500	—	—	—	0.23	—	—	

Notes:
a. Compositions are in weight percent.
b. Extrapolated.
c. Extrude.
d. 1% in 500 hr.
e. 1% in 1,000 hr.
f. Sheet.
g. 2,500 hr.

TABLE 8—Compatibility of Fuel with Structural Materials (Y = Yes, N = No)

Fuel material[a]	Aluminum, °F			Beryllium, °F			Iron base, °F				Nickel-base alloys, °F				Magnesium, °F			Chromium-base alloys, °F			Niobium-base alloys, °F				Zirconium alloys, °F				Refs.
	212	500	1,000	500	1,000	1,500	500	1,000	1,500	2,000	1,000	1,500	2,000	2,300	500	800	1,000	1,000	1,500	2,000	1,000	1,500	2,000	2,300	212	500	1,000	1,500	
Unalloyed uranium	Y	Y	N[b]	Y	Y	—	Y	Y	N[d]	N[d]	Y	N[d]	N[d]	N[d]	Y	Y	—	Y	Y	N[d]	Y	Y	N[b]	N	Y	Y	Y	N[b]	2,85,87
Alpha-U alloys																													1,12,88, 89
U-2 Zr	Y	Y	N[d]	Y	N[be]	N[be]	Y	N[b]	N[b]	N[d]	—	N[d]	N[d]	N[d]	Y	Y	N[b]	—	N[b]	N[d]	Y	Y	—	—	Y	Y	Y	Y	
U-1.5 Mo	Y	Y	N[d]	Y	N[be]	N[be]	Y	N[b]	N[b]	N[d]	—	N[d]	N[d]	N[d]	Y	Y	N[b]	—	N[b]	N[d]	Y	Y	—	—	Y	Y	Y	Y	
Gamma-U alloys																													
U-10 Mo	Y	Y	—	—	—	—	Y	Y	N[d]	N[d]	Y	N[d]	N[d]	N[d]	Y	Y	—	Y	N[d]	N[d]	Y	Y	N[b]	—	Y	Y	Y	N[b]	
Dilute uranium alloys																													
Zr-7 U	—	—	—	—	—	—	—	—	—	N[d]	—	—	N[d]	N[d]	—	—	—	—	—	—	Y	Y	—	—	Y	Y	Y	Y	
Zr-22 U	—	—	—	—	—	—	—	—	N[d]	N[d]	—	N[d]	N[d]	N[d]	—	—	—	—	—	N[d]	Y	Y	—	—	Y	Y	Y	Y	
Al-16 U	Y	Y	Y	Y	Y	N[d]	Y	Y	N[d]	N[d]	N[b]	N[d]	N[d]	N[d]	Y	Y	Y	—	N[d]	N[d]	—	N[d]	N[d]	N[d]	Y	Y	N[e]	N[d]	90
Al-25 U	Y	Y	Y	Y	Y	N[d]	Y	Y	N[d]	N[d]	N[b]	N[d]	N[d]	N[d]	Y	Y	Y	—	N[d]	N[d]	—	N[d]	N[d]	N[d]	Y	Y	N[e]	N[d]	
Nb-10 U	Y	Y	—	Y	Y	—	Y	Y	Y	N	Y	N	N	N	—	—	—	Y	Y	—	Y	Y	Y	Y	Y	Y	Y	Y	
Nb-20 U	Y	Y	—	Y	Y	—	Y	Y	Y	N	Y	N	N	N	—	—	—	Y	Y	—	Y	Y	Y	Y	Y	Y	Y	Y	
Th-5 U	Y	Y	N[e]	Y	—	N	Y	—	N[b]	N[d]	—	N[d]	N[d]	N[d]	—	—	N[d]	—	N[d]	N[d]	Y	—	—	—	Y	Y	—	N	12,13 88,89
Th-10 U	Y	Y	N[e]	Y	—	N	Y	—	N[b]	N[d]	—	N[d]	N[d]	N[d]	—	—	N[d]	—	N[d]	N[d]	Y	—	—	—	Y	Y	—	N	
Th-10 U-1.5 Mo	Y	Y	N[e]	Y	—	N	Y	—	N[b]	N[d]	—	N[d]	N[d]	N[d]	—	—	N[d]	—	N[d]	N[d]	Y	—	—	—	Y	Y	—	N	
Th-10 U-0.1 Be	Y	Y	N[e]	Y	—	N	Y	—	N[b]	N[d]	—	N[d]	N[d]	N[d]	—	—	N[d]	—	N[d]	N[d]	Y	—	—	—	Y	Y	—	N	
Al-Pu	Y	Y	N[b]	—	—	—	Y	Y	N[d]	N[d]	—	N[d]	N[d]	N[d]	—	—	—	—	—	N	Y	N	N	—	Y	Y	Y	N[d]	16,17
U-20 Pu-10 Fs	—	—	—	—	—	—	—	—	N[d]	N[d]	—	N[d]	N[d]	—	—	—	—	—	—	N[d]	Y	Y	—	—	Y	Y	Y	N[b]	91
Metallic dispersions																													
UO_2 disp.	Y	Y	Y	—	—	—	Y	Y	Y	Y	Y	Y	Y	Y	—	—	—	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	92,93
UN disp.	Y	Y	Y	—	—	—	Y	Y	Y	Y	Y	Y	N	N	—	—	—	Y	Y	Y	—	—	—	—	—	—	—	—	
UC disp.	Y	Y	Y	—	—	—	Y	Y	Y	N	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Y	Y	Y	Y	
U_2Ti disp.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Y	Y	Y	N	
U_3Si disp.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Y	Y	Y	N	
U_6Ni disp.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Y	Y	Y	N	
U disp.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Y	Y	Y	—	—	—	—	—	—	—	—	—	—	—	
Compounds																													
UO_2	Y	Y	—	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	— 2,200 Y	—	—	—	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	134–138
UC	Y	Y	Y	Y	Y	N	Y	Y	N[b]	N[b]	Y	N[b]	N[b]	N[b]	Y	Y	Y	Y	—	—	Y	Y	Y	N[b]	Y	Y	Y	N[b]	26
Ceramic dispersions																													
ThO_2-6.5 UO_2	Y	Y	—	Y	Y	—	Y	Y	Y	Y	Y	Y	—	—	—	—	—	Y	Y	—	Y	Y	—	—	Y	Y	Y	Y	29
ThO_2-10 UO_2	Y	Y	—	Y	Y	—	Y	Y	Y	—	Y	Y	—	—	—	—	—	Y	Y	—	Y	Y	—	—	Y	Y	Y	Y	94
PuO_2[e]	Y	Y[b]	N	—	N	N	Y	Y	Y	—	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y[e]	31,95
Graphite-UO_2	—	—	—	—	—	—	Y	Y	Y	N	Y	Y	—	—	—	—	—	Y	Y	—	Y	Y	—	—	—	—	—	—	152
Graphite-UC	Refer to graphite-UO_2 compatibility																												
BeO-UO_2[f]	Refer to UO_2 compatibility																												

Notes:

a. Compositions are in weight percent.
b. Limited by excessive diffusion.
c. Limited by formation of brittle compounds.
d. Limited by formation of low-melting material.
e. Data inconclusive in all cases, but above results are indicated.
f. BeO would be inert with respect to both UO_2 and fuel-element claddings at reactor operating temperatures; compatibility of BeO-UO_2 probably limited by UO_2 compatibility. BeO-UO_2 forms a eutectic at 68 mole percent BeO. There are no compounds or solid solutions in this system.

TABLE 9—Compatibility of Structural Materials with Various Coolants (Y = Yes, N = No)

Material[a]	Water or steam at various temp. (°F)						Air at various temp. (°F)				Sodium or NaK (°F)			Terphenyl	CO_2 (°F)			Nitrogen (°F)		Inert gases (°F)					Lithium (°F)		
	212	575	600	680	750	1,000	600	1,000	1,500	2,000	570	1,100	1,470	650°F	1,000	1,500	2,000	1,500	2,000	500	1,000	1,500	2,000	2,300	570	1,110	1,470
Steels (1, 115)																											
310 stainless	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y[b]	Y[e]	N[e]	N[e]	N[d]	N	Y	Y	Y	Y	Y	Y	N	N
316 stainless	Y	Y	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	Y[b]	Y[e]	Y[e]	—	N[d]	N	Y	Y	Y	Y	Y	Y	N	N
347 stainless	Y	Y	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	Y[b]	Y[e]	Y[e]	—	N[d]	N	Y	Y	Y	Y	Y	Y	N	N
Chromium alloys (36, 40, 64, 116–120)																											
Unalloyed	Y	Y	Y	Y	Y	Y	Y	Y	—	N[e]	Y	Y	Y	—	Y	Y	—	—	N[e]	Y	Y	Y	Y	Y	—	—	—
70Fe-25Cr-5Al	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	—	Y	Y	Y	Y	—	Y	Y	Y	Y	Y	—	—	—
60Cr-40Fe	Y	Y	Y	Y	Y	Y	Y	Y	Y[f]	—	Y	Y	Y	—	—	—	—	Y[f]	—	Y	Y	Y	Y	Y	—	—	—

Table 9 continued on following page.

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TABLE 9—(Continued)

Material[a]	Water or steam at various temp. (°F)						Air at various temp. (°F)				Sodium or NaK (°F)			Ter-phenyl	CO_2 (°F)			Nitrogen (°F)		Inert gases (°F)					Lithium (°F)		
	212	575	600	680	750	1,000	600	1,000	1,500	2,000	570	1,100	1,470	650°F	1,000	1,500	2,000	1,500	2,000	500	1,000	1,500	2,000	2,500	570	1,110	1,470
60Cr-25Fe-15Mo	—	—	—	—	—	—	Y	Y	Y	—	Y	Y	Y	—	—	—	—	Y	—	Y	Y	Y	Y	Y	—	—	—
Nickel-base alloys (*42, 43, 121–123*)																											
Inconel 702	Y	Y	Y	Y	Y	Y	Y[f]	Y[f]	Y[f]	Y[f]	Y	Y	Y	Y	Y	Y	—	Y	N	Y	Y	Y	Y	Y	Limited	N	N
Hastelloy X	Y	Y	Y	Y	Y	Y	Y[f]	Y[f]	Y[f]	Y[f]	Y	Y	Y	Y	Y	Y	—	Y	N	Y	Y	Y	Y	Y	Limited	N	N
Zirconium alloys (*44, 45, 46, 68, 70, 71*)																											
Unalloyed	Y	Y	Y	?	N	N	N	N	N	N	Y	Y	—	—	N	N	N	N	N	Y	Y	—	—	—	Y	—	—
Zircaloy-2	Y	Y	Y	Y	N	N	N	N	N	N	Y	Y	—	—	N	N	N	N	N	Y	Y	—	—	—	Y	—	—
Zircaloy-4	Y	Y	Y	Y	N	N	N	N	N	N	Y	Y	—	—	N	N	N	N	N	Y	Y	—	—	—	Y	—	—
Niobium (*10, 124*)																											
Unalloyed	—	—	N	N	N	—	Y	N	N	N	Y	Y	Y	—	N	N	N	N	N	Y	Y	Y	Y	Y	—	—	—
Nb-0.7Zr	—	—	Y	Y	Y	—	Y	N	N	N	—	—	—	—	—	—	—	—	—	Y	Y	Y	Y	Y	—	—	—
Nb-15W-5Mo-1Zr	—	—	—	—	—	—	Y	N	N	N	—	—	—	—	—	—	—	—	—	Y	Y	Y	Y	Y	—	—	—
Aluminum (*1, 38, 90, 146–151*)																											
Unalloyed	Y	N	N	N	N	N	N	N	N	N	Y	Y	N	Y	Y	N	N	N	N	Y	Y	N	N	N	—	N	N
1100	Y	N	N	N	N	N	N	N	N	N	Y	Y	N	Y	Y	N	N	N	N	Y	Y	N	N	N	—	N	N
6063	Y	N	N	N	N	N	N	N	N	N	Y	Y	N	Y	Y	N	N	N	N	Y	Y	N	N	N	—	N	N
M-388	Y	Y	N	N	N	N	N	N	N	N	Y	Y	N	Y	Y	N	N	N	N	Y	Y	N	N	N	—	N	N
SAP	Y	Y	N	N	N	N	N	N	N	N	Y	Y	N	Y	Y	N	N	N	N	Y	Y	N	N	N	—	N	N
Magnesium alloys (*38, 116, 153*)																											
Unalloyed	N	N	N	N	N	N	Y	N[e]	N	N	—	N	N	—	N	N	N	N	N	—	—	N	N	N	N	N	N
Mg-1.2Mn-0.14Ca	N	N	N	N	N	N	—	—	—	—	—	N	N	—	—	—	—	N	N	—	—	N	N	N	N	N	N
Mg-6Zn	—	—	—	—	—	—	—	—	—	—	—	N	N	—	—	—	—	N	N	—	—	N	N	N	N	N	N
Beryllium (*84, 125–129*)																											
QMV	N	N	N	N	N	N	Y	Y	N	—	Y	Y	Y	—	Y	N	N	Y	—	Y	Y	Y	—	—	Y	Y	—

Notes:
a. Compositions are in weight percent.
b. Extrapolated from data on biphenyl.
c. 2,000 psi CO_2 pressure.
d. Suitable at 1,500° F when 0.07–0.2 w/o water vapor added to nitrogen.
e. Indicates nitrogen pickup will be of concern due to the possibility of embrittlement of the metal or alloy.
f. Sulfur-free atmosphere.

TABLE 10—Suitability of Properly Clad Fuels Having Cladding Defect for Use in Various Coolants (Y = Yes, N = No)

Fuel material[a]	Water or steam at various temp. (°F)						Air at various temp. (°F)				Sodium (°F)		Ter-phenyl	CO_2 (°F)			Nitrogen (°F)		Inert gases (°F)					Refs.
	212	575	600	680	750	1,000	600	1,000	1,500	2,000	1,000	1,500	650°F	1,000	1,500	2,000	1,500	2,000	500	1,000	1,500	2,000	2,500	
Unalloyed uranium	Y	Y	N	N	N	N	N	N	N	N	Y	—	Y	N	N	N	N	N	Y	Y	—	N	N	*2,85,87*
U-1.5 Mo	Y	Y	N	N	N	N	N	N	N	N	Y	Y	Y	—	—	—	N	N	Y	Y	Y	Y	—	
Zr-7 U	Y	Y	Y	Y	Y	—	N	N	N	N	Y	—	—	N	N	N	N	N	Y	Y	Y	—	—	*96,97*
Al-16 U	Y	N	—	—	—	—	Y	N	N	N	Y	N	Y	Y	N	N	N	N	Y	Y	N	N	N	*90*
Al-25 U	Y	N	—	—	—	—	Y	N	N	N	Y	N	Y	Y	N	N	N	N	Y	Y	N	N	N	*90*
Al-35 U	Y	Y	Y	Y	Y	Y	Y	N	N	N	Y	N	Y	Y	N	N	N	N	Y	Y	N	N	N	
Nb-10 U	Y	Y	Y	Y	N	N	Y	N	N	N	Y	Y	—	N	N	N	—	—	Y	Y	Y	Y	Y	*59*
Nb-20 U	Y	Y	Y	Y	N	N	Y	N	N	N	Y	Y	—	N	N	N	—	—	Y	Y	Y	Y	Y	*59*
U-2 Zr	Y	Y	Y	N	N	N	—	N	N	N	Y	N	Y[b]	—	N	—	N	N	Y	Y	Y	N	N	*1,3,87,89,96,97*
U-1.5 Mo	Y	Y	Y	N	N	N	—	N	N	N	Y	N	Y	—	N	—	N	N	Y	Y	Y	N	N	*1,3,87,89,96,97*
Th-5 U	Y	N	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	—	N	N	Y	Y	—	—	—	*13,96*
Th-10 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Th-10 U-1.5 Mo	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Th-10 U-0.1 Be	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
U-20 Pu-10 Fs	N	N	N	N	N	N	N	N	—	—	Y	—	—	—	—	—	—	N	—	—	—	N	N	*1*
Al-Pu	Y[c]	Y[c]	Y[c]	—	—	—	Y	Y	N	N	—	N	—	—	N	N	N	N	Y	Y	N	N	N	*16,19*
UO_2 disp. in iron-nickel-base alloys	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	[d]
UN disp. in SS	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	[d]
UO_2	Y	Y	Y	Y	Y	Y	N	N	N	N	Y	Y	—	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	*1,98,100*
UC	N	N	N	N	N	N	N	N	N	N	Y	Y	Y	N	N	N	—	—	Y	Y	Y	Y	Y	*26*
ThO_2-6.5 UO_2	Y	Y	Y	Y	—	—	Y	—	—	—	Y	Y	—	—	—	—	—	—	Y	Y	Y	Y	Y	*30*
ThO_2-10 UO_2	Y	Y	Y	Y	—	—	Y	—	—	—	Y	Y	—	—	—	—	—	—	Y	Y	Y	Y	Y	*30*
PuO_2	Y	Y	Y	Y	Y	Y	Y	Y	Y	—	Y	Y	—	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	*101,102*
Zr-22 U	Y	Y	Y	Y	Y	—	N	N	N	N	Y	—	—	N	N	N	N	N	Y	Y	Y	—	—	*96,97*
Be-UO_2[e]	Refer to UO_2																							

Notes:
a. Compositions are in weight percent.
b. Extrapolated from data on biphenyl.
c. Corrosion resistance of Al-Pu alloys in water varies with composition and processing techniques; however, Zircaloy-sheathed Al-5 and -10 w/o Pu alloys appear very corrosion-resistant when anodically treated.
d. A properly prepared dispersion of moderate fuel loading has the corrosion characteristics of the matrix.
e. BeO is chemically inert with respect to the atmosphere below 860° C.

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Thermal Properties of Nuclear

By WILLIAM S. FARMER, *Allis-Chalmers Manufacturing Company, Washington, D. C.*

THE FOLLOWING TABLES and graphs provide thermal properties of coolants and other reactor materials of current interest.

Gas properties are presented here for atmospheric pressure. The densities at other pressures can be estimated with the ideal-gas law. The specific heat, thermal conductivity and viscosity of gases are influenced only slightly by pressure, and hence the values shown can be used at other pressures, excluding of course the critical-state region. In the case of steam and water, values are plotted in the critical-state region where such information is available.

Santowax R is included as the organic compound of greatest current interest as a reactor coolant.

In the use of the thermal-conductivity values of graphite and beryllium oxide in reactor design calculations, allowance should be made for the effects of irradiation and exposure temperature. Correction factors giving the ratio of the thermal conductivity of irradiated graphite to that of unirradiated graphite are given in Fig. 9. Similar correction factors are given in reference *12* for beryllium oxide.

Explanation of tables. Numbers in parentheses below names of materials denote applicable references in bibliography on p. 165. All values except those designated as extrapolations are either experimentally measured values or interpolations between experimentally measured values.

TABLE 1—Gas Coolants at Atmospheric Pressure

	TEMP. (°F)	DENSITY (LB/FT³)	SPECIFIC HEAT (BTU/LB/°F)	THERMAL CONDUCTIVITY (BTU/HR/FT²/°F/FT)	VISCOSITY (LB/HR/FT)
Air (dry)	77	0.0741	0.240	0.0151	0.0445
	440	0.0442	0.246	0.0233	0.0649
(3,30)	1,160	0.0246	0.268	0.0359	0.0946
	1,700	0.0184	0.280	0.0434	0.1123
	2,240	0.0147	0.289	0.0500	0.1277
Carbon dioxide	80	0.1117	0.204	0.0096	0.0362
	440	0.0670	0.241	0.0194	0.0563
(14,28)	1,160	0.0372	0.287	0.0359	0.0875
	1,700	0.0279	0.305	0.0452	0.1067
Helium	80	0.01015	1.248	0.0868	0.0481
	440	0.00609	1.248	0.1170	0.0675
(14,31)	600	0.00517	1.248	0.1284	0.0763
	1,160	0.00339	1.248	0.1570a	0.1003
Hydrogen	80	0.00512	3.40	0.1050	0.0216
	440	0.00307	3.46	0.1573	0.0306
(14,28)	800	0.00219	3.50	0.2070	0.0383
	1,160	0.00171	3.54	0.2560a	0.0451
Nitrogen	80	0.0710	0.248	0.0151	0.0433
	440	0.0426	0.252	0.0230	0.0621
(14,28)	800	0.0304	0.262	0.0296	0.0783
	1,160	0.0237	0.274	0.0350	0.0925
	1,700	0.0178	0.288	0.0415	0.1115
Steam	See Figs. 5 through 8				

a. Extrapolated.

TABLE 2—Liquid-Metal Coolants

	TEMP. (°F)	DENSITY (LB/FT³)	SPECIFIC HEAT (BTU/LB/°F)	THERMAL CONDUCTIVITY (BTU/HR/FT²/°F/FT)	VISCOSITY (LB/HR/FT)
Bismuth	572	626	0.0343	9.9	4.02
	752	619	0.0354	9.0	3.42
(23)	1,112	603	0.0376	9.0	2.41
	1,472	587	0.0397	9.0	
	1,764	574	0.0415		
Lithium	362	31.8	1.43	27.1	1.43
	420	31.6	1.37	26.5	1.31
(23,36)	546	31.2	1.26	25.3	1.10
	750	30.6	1.09	22.8	
	1,000	29.8	0.99	17.6	
	1,472	28.5			
Mercury	32	849	0.033	4.74	4.07
	68	846	0.033	5.02	3.75
(23)	212	834	0.033	6.07	2.93
	392	819	0.032	7.14	2.44
	572	804	0.032		
Sodium	212	58	0.331	49.7	1.66
	482	56	0.316	45.4	0.92
(23)	752	53	0.306	41.1	0.65
	1,022	51	0.301	37.4	0.54
	1,292	49	0.302		0.44
Sodium-potassium alloy	212	55	0.269	14.9	1.32
	482	53	0.258	15.5	0.77
(56 w/o Na, 44 K)	752	51	0.252	16.0	0.56
	1,022	49	0.248	16.4	0.47
(23)	1,292	46	0.251		0.39

Reactor Materials

TABLE 3—Liquid Coolants (Other Than Liquid Metals)	TEMP. (°F)	DENSITY (LB/FT³)	SPECIFIC HEAT (BTU/LB/°F)	THERMAL CONDUCTIVITY (BTU/HR/FT²/°F/FT)	VISCOSITY (LB/HR/FT)
Heavy water	86	68.9	1.005	0.343	2.345
	140	68.0	1.004	0.365	1.337
(4,13,25)	212	66.3			0.782
	302	63.4			0.503
	392	59.7			0.365
	482	54.9			0.300
Sodium hydroxide	650	108.5	0.514	0.57	9.65
	750	106.5	0.512	0.58	6.80
(1,8,11,26,35)	850	105.0	0.510	0.605	5.35
	950	102.6	0.508	0.75	4.35
	1,050	100.7	0.506	1.00	3.60
Santowax R	300	64.0	0.478	0.738	16.0
(30 w/o	400	61.1	0.487	0.712	5.56
high-boiler content)	500	59.0	0.496	0.687	2.78
	600	56.1	0.505	0.66	1.72
(2,27	700	53.7	0.515	0.635	1.185
	800	51.0	0.524	0.61	0.885
Light water	See Figs.1 through 4				

TABLE 4—Solid Moderators	TEMP. (°F)	DENSITY (LB/FT³)	SPECIFIC HEAT (BTU/LB/°F)	THERMAL CONDUCTIVITY (BTU/HR/FT²/°F/FT)	LINEAR EXP. COEFF.[a] (10^{-6}/FT/FT/°F)
Beryllium (vacuum	77	115.5	0.44	85.9	
cast, extruded)	212		0.51	82.2	6.42
	392		0.57	77.5	7.48
(32,38)	752	113.5	0.64	67.7	8.47
	1,112		0.69	58.1	9.23
Beryllium oxide	77	176	0.242		
(hot pressed)	212		0.310	121.0	3.06
	752		0.420	51.0	4.75
(17,32,38)	1,472		0.492	14.9	5.72
	2,192			9.5	6.20
Graphite (AGOT)	77	103	0.172	94.0	
	482		0.298	70.2	3.36 (2.22)[b]
(29,32)	932		0.376	52.0	3.78 (2.56)[b]
	1,292		0.432	43.5	4.09 (2.87)[b]
	1,832		0.458	31.4	4.56 (3.34)[b]

a. Mean value from 77° F to temperature shown.

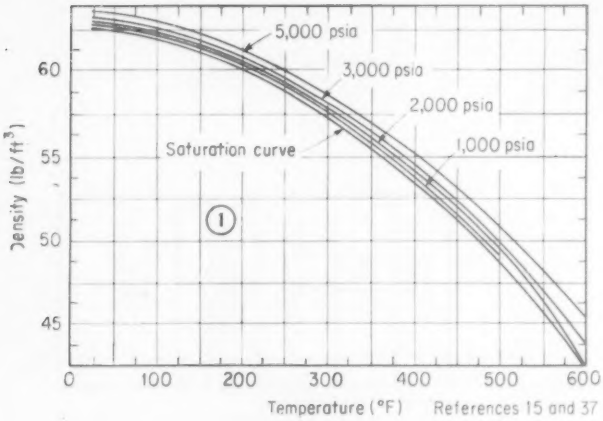
b. Value on the left is the linear expansion coefficient perpendicular to the extrusion axis; value in parentheses is the linear expansion coefficient parallel to the expansion axis.

TABLE 5—Control-Rod Materials	TEMP. (°F)	DENSITY (LB/FT³)	SPECIFIC HEAT (BTU/LB/°F)	THERMAL CONDUCTIVITY (BTU/HR/FT²/°F/FT)	LINEAR EXP. COEFF.[a] (10^{-6} FT/FT/°F)
Cadmium	70	548	0.055	53.6	
	212		0.057	52.2	17.7
(22,24,34)	572		0.062		21.1
Boron carbide	77	156	0.445		
	212		0.453	16.5	
(10,32)	572		0.472	12.5	
	932		0.491	10.4	
	1,472		0.520	8.4	2.5
Boron steel	70	464	0.124		
(3 w/o B)	212			23.2	5.56
	392				5.73
(5)	572				5.90
Hafnium	70	833	0.0345		
	212		0.0346	12.7	3.28
(9,32)	572		0.0352	12.1	3.28
	932		0.0358	11.85	3.28
Silver-indium-	77	635	0.054		
cadmium alloy	122			34.1	12.5
(80 w/o Ag, 15 In,	212			36.3	12.5
5 Cd)	392			40.7	12.5
(21)	572			44.3	12.5

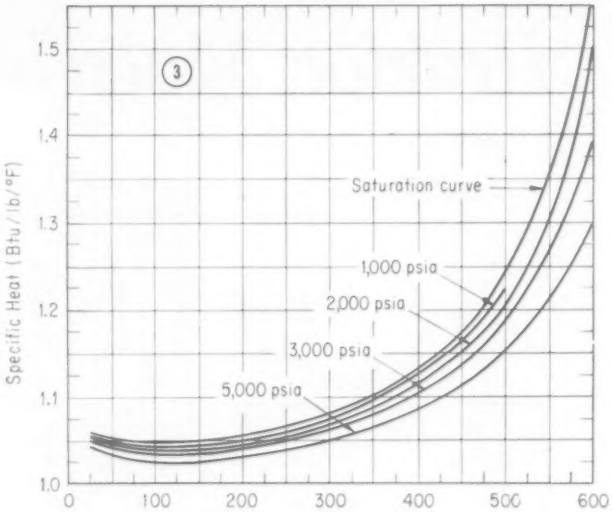
TABLE 6—Shielding Materials	TEMP. (°F)	DENSITY (LB/FT³)	SPECIFIC HEAT (BTU/LB/°F)	THERMAL CONDUCTIVITY (BTU/HR/FT²/°F/FT)	LINEAR EXP. COEFF.[a] (10^{-6} FT/FT/°F)
Lead	70	709	0.031	20.1	16.2
	212		0.032	19.4	16.7
(22,34)	392		0.032	18.2	17.4
Boral (50 wt % B_4C,	70	158	0.175		
50 Al)	200			25	
(19,33)	450			19.2	
Ordinary concrete	70	144	0.156	1.0	5.5
(portland cement)	200			1.0	
(7,18)					
Barytes concrete	70	218			10
	122		0.123	0.926	
(7,18)	212		0.133	0.997	
	302		0.141	0.872	
Heavy concrete	70	273	0.18	2.75	5.9
(limonite + iron punchings)					
(7)					
Steel	70	490		30.0	
	212		0.116	29.5	6.78
(6,22,34)	572		0.133	26.6	7.28
	932		0.158	22.8	7.72

a. Mean value from 77° F to temperature shown.

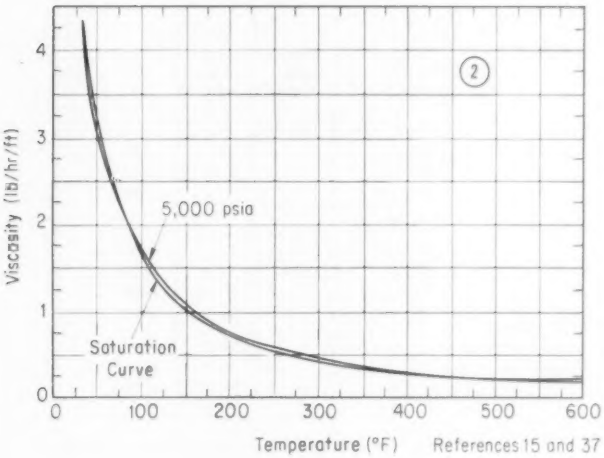
LIQUID LIGHT WATER—Properties at High Pressures and Temperatures



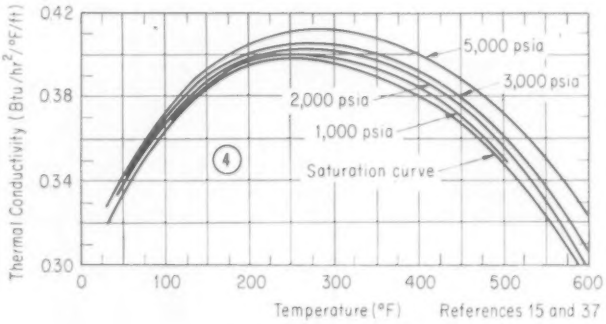
Density



Specific Heat (Btu/lb/F°)

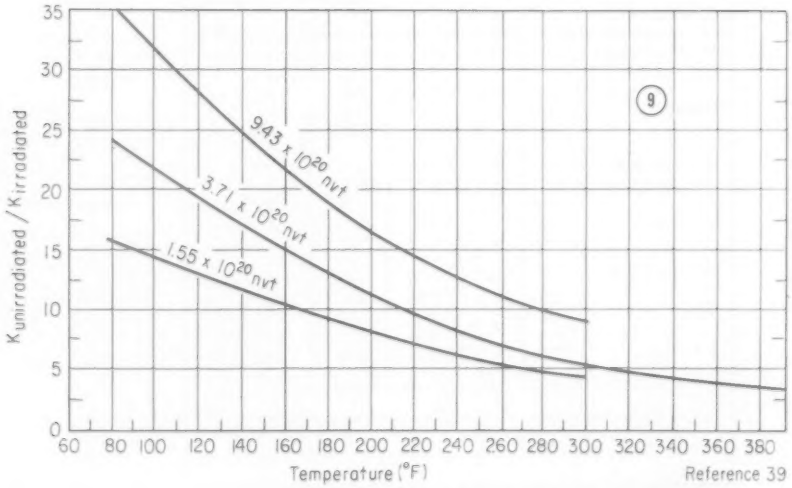


Viscosity

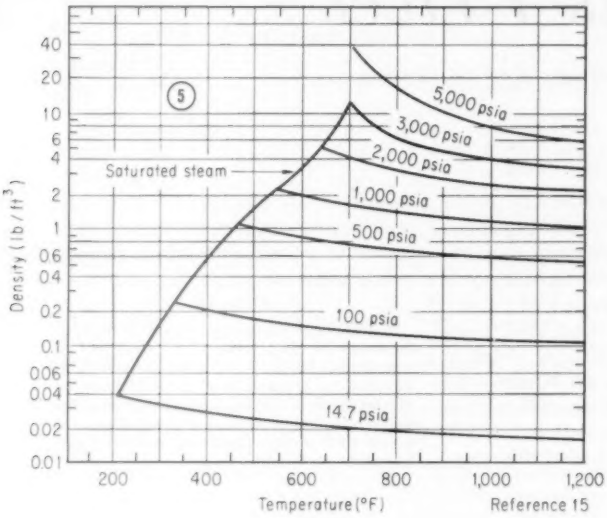


Thermal Conductivity

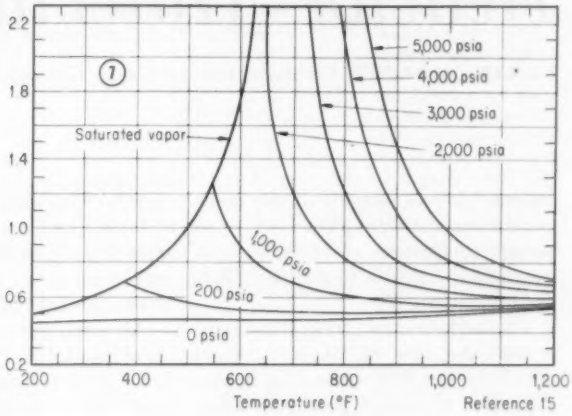
GRAPHITE—Effect of Irradiation and Exposure Temperature on Thermal Conductivity



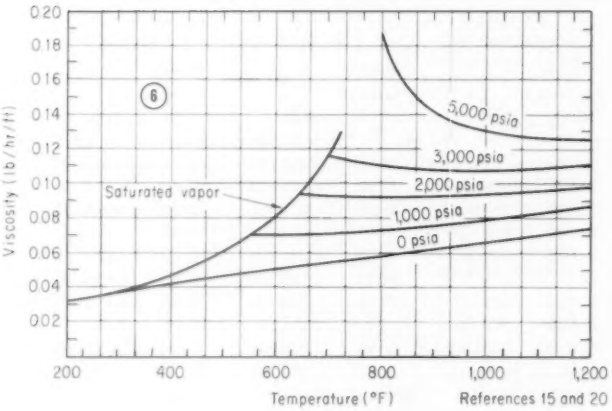
WATER VAPOR—Properties at High Pressures and Temperatures



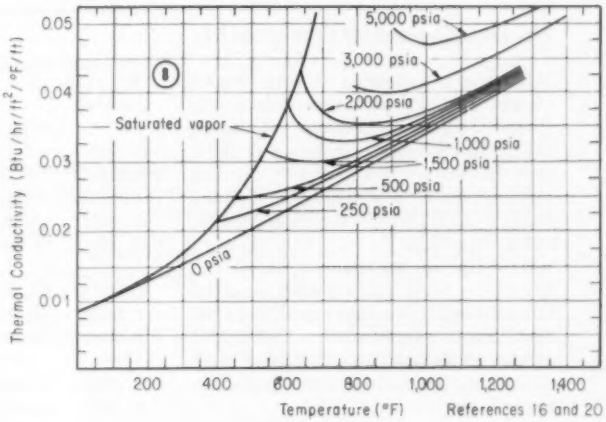
Density



Specific Heat (Btu/lb/°F)



Viscosity



Thermal Conductivity

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Reactor-Materials Prices

By KARL M. MAYER, *Lockheed Aircraft Corp., Georgia Division, Marietta, Georgia*

PRICES for fuel, structural and other reactor materials are provided here to permit comparison of the prices for competing materials to at least a first approximation.

The materials are presented in two broad categories: (1) those available only from the AEC because of federal regulation or current lack of commercial sources and (2) those available commercially. The prices have been derived from three sources: AEC publications (used only for AEC-supplied materials), solicitation from commercial suppliers and quotation from publication market reports.

Although prices, other than those established by the AEC or obtained from market reports, are for the most part direct company quotations, the companies are deliberately not identified. It was not the goal of this report to survey all suppliers of individual materials to compare their prices, but rather to permit comparison of competing materials.

* * *

Special acknowledgment should be made of the help of T. L. Cramer of NUCLEONICS and W. R. Sharp, M. J. Phillips and J. S. Smith of the Lockheed staff in the preparation of this report. Also, without the excellent cooperation of responding organizations, the preparation of this report would not have been possible.

AEC Charges for Materials and Services

AEC Base Charges for Uranium as UF_6

Natural and depleted uranium can be bought from the AEC according to the charge schedules at right. Although title to special nuclear materials (Pu and uranium enriched in U^{235} or U^{233}) remains vested in the U. S. government, they are leased to AEC licensees for 4% of the base charge annually.

Base charges for uranium assays not specifically listed here are determined by linear interpolation between the nearest listed assays. For assays less than 0.0072 or greater than 0.0070, determine base charge by interpolation with price for natural uranium.

These base charges cover standard materials specifications and packaging as published in the U. S. Federal Register (25 F.R. 2817) on April 2, 1960. Extra charges are made for special certifications and packaging.

The 4% use charge for enriched uranium is determined generally as follows: UF_6 is valued at the base charge for the full initial enrichment from purchase to installation in reactor, for average enrichment (depending on burnup) during in-core residence time, and for the post-burnup enrichment after removal from core to return to AEC as UF_6. Details of these charges follow a standard AEC lease agreement. In addition to the use charge, there is direct payment for the U^{235} burned up in the reactor, which is the difference between the fuel values before and after irradiation.

Weight fraction U^{235}	*\$/kg U*	*Weight fraction U^{235}*	*\$/kg U*	*Weight fraction U^{235}*	*\$/kg U*	*Weight fraction U^{235}*	*\$/kg U*
Enriched U				0.15	2,374.00	0.55	9,245.00
0.0072	40.50	0.012	103.00	0.20	3,223.00	0.60	10,111.00
0.0074	42.75	0.013	117.00	0.25	4,078.00	0.65	10,979.00
0.0076	45.25	0.014	131.25			0.70	11,850.00
		0.015	145.50	0.30	4,931.00	0.75	12,721.00
0.0078	47.50			0.35	5,793.00	0.80	13,596.00
0.0080	50.00	0.020	220.00	0.40	6,654.00	0.85	14,475.00
0.0082	52.50	0.025	297.00				
		0.030	375.50	0.45	7,515.00	0.90	15,361.00
0.0084	55.00			0.50	8,379.00	0.95	16,258.00
0.0086	57.50	0.035	455.00	**Natural U**		0.007115	39.25
0.0088	60.00	0.040	535.50	**Depleted U**			
		0.045	616.50	0.0070	38.15	0.0056	22.65
0.0090	62.75			0.0068	35.75	0.0054	20.65
0.0092	65.25	0.050	698.25	0.0066	33.50		
0.0094	67.75	0.060	862.50			0.0052	18.65
		0.070	1,028.00	0.0064	31.25	0.0050	16.65
0.0096	70.50			0.0062	29.00		
0.0098	73.00	0.080	1,195.00	0.0060	26.90	0.0040	8.15
0.010	75.75					≤0.0036	5.00
		0.090	1,362.00	0.0058	24.75		
0.011	89.00	0.10	1,529.00				

Other AEC Prices

Natural-uranium metal	\$40/kg
Thorium	\$43/kg
Plutonium	\$12/gm
Uranium-233 nitrate	\$15/gm
Chemical processing of irradiated fuel (no. days varies from 4 upward depending upon load)	\$16,400/day
Conversion charge	
UNO_3 to UF_6	
<5% enriched	\$5.60/kg
>5% enriched	\$32/kg
$PuNO_3$ to metal	\$1.50/gm
Fuel-shipping costs	
Irradiated fuel	\$16/kg nat. U
Nonirradiated fuel	\$1.50/lb
Heavy water	\$28/lb

Prices of Commercially Available Materials

Cladding, structural and fuel-diluent

Material	Price ($)	Pricing Conditions
ALUMINUM		
Pure metal (99.5%), ingot	0.26/lb (1)	fob customer custody, ≥30,000 lb
1100, 3003 mill-finish flat sheet	0.451–0.625/lb	price range for 0.25 in. thick, 72–180 in. long, 24–48 in. wide to 0.006 in., 72–96 in., 24–36 in.; fob customer custody, 30,000 lb base
BERYLLIUM		
QMV S-200 fuel cladding	35–125/ft	dia. = 0.3–1½ in.; $5–15/ft in 1965
QMV S-200	150–300/lb	dia. = 3½–5 in.; $60–100/lb in 1965
GRAPHITE	35.25/piece	Palletized, ~48 lb, grade R-1HLM,
MOLYBDENUM—unalloyed forging billets	8.15–11.50/lb (1)	50–4,999 lb, fob shipping pt.
NICKEL		
"A"nickel—cold-rolled sheets	1.38/lb (2)	10,000-lb base, fob mill
—seamless tubes	1.57/lb (2)	10,000-lb base, fob mill
Monel—cold-rolled sheets	1.20/lb (2)	10,000-lb base, fob mill
—seamless tubes	1.29/lb (2)	10,000-lb base, fob mill
Inconel—cold-rolled sheets	1.38/lb (2)	10,000-lb base, fob mill
—seamless tubes	2.00/lb (2)	10,000-lb base, fob mill
NIOBIUM—sintered rod	38–62/lb (3)	200–300 ppm oxygen
—sheet, plate	~80/lb (3)	Large quantities
—powder	50–75/lb	≤200 mesh, product not yet standardized
—ingot	55/lb	Under 50 lb, 5–16 in.
STEEL		
Carbon steel—plates	0.053/lb (1)	Base price, fob mill
Low-carbon hot-rolled plate	0.10/lb	
304 stainless—plates	0.46/lb (2)	Base price, fob mill
—cold-rolled strip	0.52/lb (2)	Base price, fob mill
316 stainless—plates	0.72/lb (2)	Base price, fob mill
—cold-rolled strip	0.81/lb (2)	Base price, fob mill
347 stainless—plates	0.65/lb (2)	Base price, fob mill
—cold-rolled strip	0.79/lb (2)	Base price, fob mill
TANTALUM—melting stock	35/lb (1)	
—rod	60/lb nom. (1)	
—sheet	55/lb nom. (1)	
TITANIUM—sponge	1.60/lb (1)	99.3+% grade A-1, ductile (0.3% Fe max.)
—mill products	5–10/lb	
VANADIUM—chips	32.50/lb	1,000-lb base, ≤¼ in., 99.7+%, fob factory
—powder	40/lb	1,000-lb base, ≤20 mesh, 99.6+%, fob factory
—sheet, rod	100–155/lb	custom-quoted prices
ZIRCONIUM, low-Hf—sponge	6.50/lb (1)	1,000-lb base
Zr and Zircaloy—ingot	8–9/lb	12–16 in. dia., machine conditioned
—strip	12–14.50/lb	MIL-Z-19859 A
	11–20/lb	Hot-rolled and cold-rolled
—welded tubing	18–35/lb	Depends on spec's, quantity
—seamless tubing	25/lb	2,000 lb of 1½ in. o.d., 1 in. i.d. or 25 lb of 0.188 o.d., 0.132 i.d.

Moderators and reflectors

Material	Price ($)	Pricing Conditions
BERYLLIUM		
Metal—powder	64–76/lb	
—bead	70/lb	
—vacuum-cast ingot, chip	75/lb	
—machined, hot-pressed block	75–200/lb	QMV, grade S-100 and S-200; expanding market, ~$30/lb in 1965
Oxide—powder	15/lb	High-fired, for cold compacting, sintering
	20/lb	High-fired, ball-milled; 90% through 200 mesh
	15–23/lb	Reactor grade, sinterable and nonsinterable; ~$10/lb in 1965
—fabricated shapes	25–75/lb	UOX grade, high-density (95%) sintered; $18–20/lb in 1965
GRAPHITE—unmachined	51.50/100 lb ranging to 53/100 lb, net	Net price, palletized, grade R-1HLM; approx. size 4⅜ × 4⅜ × 51, ~60 lb
	53/100 lb, net	Palletized, grade R-1HLM; ~16.35 × 16.35 × 51, ~875 lb
LITHIUM—hydride	9.50/lb	Delivered, 500-lb base

Control materials

Material	Price ($)	Pricing Conditions
Ag-Cd-In	1.05/tr. oz	10,000-oz lots, fob factory, continuous cast extrusion billets
Boron, natural—powder	13–30/lb	90–92% } price ranges
	18–33/lb	95–97% } from lb to ton lot
B-steel—sheet	3.50/lb	Hot-rolled, annealed and pickled
	10+/lb	Very thin, cold-rolled
Boron enriched in B^{10}*	4/gm contained B^{10}	>94% total boron;
—powder		91+ wt% B^{10} in total B; ≤100 mesh
—KBF_4	1.60/gm contained B^{10}	7–8+% total boron; 91+ wt% B^{10} in total B
Cadmium—bars, sticks	1.40/lb	Delivered, ton lots
Dysprosium, erbium—metals, ingot	300/lb	Experimental quantity
—oxides	85–125/lb	Price range for lb to ton
Europium—metal, ingot	1,500/lb	Experimental quantity
—oxide, powder	590/lb	20–100 lb lots
Gadolinium—oxide	30–75/lb	Price range for lb to ton lots
Hafnium	14–25/lb	
Indium—ingot	1.55/tr. oz.	Delivered, 1,000-oz. lots
Samarium—metal, ingot	180/lb	Experimental quantity
—oxide	20–40/lb	Price range for lb to ton lots

Coolants

Material	Price ($)	Pricing Conditions
Bismuth—ingot	2.25/lb	Delivered, ton lots, 99.999% purity
Helium	0.11/ft³	230-ft³ tanks
	0.085/ft³	10-tank lots
Lithium—metal	9/lb	500-lb base, technical grade, fob ship. pt. high-purity grade at $2/lb premium
Sodium	0.24, 0.17/lb	400-lb lots and carloads, respectively

Shielding materials

Material	Price ($)	Pricing Conditions
Lead—shot	0.185/lb	Delivered, ton lots, 0.04–0.125 in. dia.
—sheet	0.165/lb	Ton lots, chemical grade, ≥1/16 in. thick
—pigs	0.119/lb (1)	fob St. Louis, carload lots

REFERENCES: (1) *Steel*, Oct. 10, 1960; (2) *Iron Age*, Oct. 6, 1960; (3) NUCLEONICS, Sept., 1960, p. 134.

* These and other B^{10} materials available from AEC inventory (order from AEC Lockland Aircraft Reactors Operations Office, Cincinnati); additional costs: $14 handling charge plus shipping.

Stress

The chart provides in highly condensed form the significant distribution and stress-distribution equations for various elemental heat-generating geometries, which can be combined for more complicated configurations. In equations for stress, bodies are considered unrestrained.

Geometry	Temperature				
	Parameter P	Boundary conditions	Temperature distribution	Average temperature	Maximum temperature
Flat plate	$\frac{q'''\delta^2}{2k}$	$t = t_0$ at $x = 0$ $t = t_\delta$ at $x = \delta$	$\frac{t-t_0}{P} = \frac{x}{\delta} - \left(\frac{x}{\delta}\right)^2 + \frac{t_\delta - t_0}{P}\left(\frac{x}{\delta}\right)$	$\frac{t_{av}-t_0}{P} = \frac{1}{6} + \frac{t_\delta - t_0}{2P}$	$\frac{t_{max}-t_0}{P} = \frac{1}{4}\left[1 + \frac{t_\delta - t_0}{P}\right]^2$ at $\frac{x}{\delta} = \frac{1}{2}\left[1 + \frac{t_\delta - t_0}{P}\right]$
		$t_0 = t_\delta$	$\frac{t-t_0}{P} = \frac{x}{\delta} - \left(\frac{x}{\delta}\right)^2$	$\frac{t_{av}-t_0}{P} = \frac{1}{6}$	$\frac{t_{max}-t_0}{P} = \frac{1}{4}$ at $\frac{x}{\delta} = \frac{1}{2}$
		$t = t_0$ at $x = 0$ $dt/dx = 0$ at $x = \delta$	$\frac{t-t_0}{P} = 2\frac{x}{\delta} - \left(\frac{x}{\delta}\right)^2$	$\frac{t_{av}-t_0}{P} = \frac{2}{3}$	$\frac{t_{max}-t_0}{P} = 1$ at $\frac{x}{\delta} = 1$
Solid cylinder	$\frac{q'''r_0^2}{4k}$	$t = t_0$ at $r = r_0$	$\frac{t-t_0}{P} = 1 - \left(\frac{r}{r_0}\right)^2$	$\frac{t_{av}-t_0}{P} = \frac{1}{2}$	$\frac{t_{max}-t_0}{P} = 1$ at $r = 0$
Cylindrical shell	$\frac{q'''r_0^2}{4k}$	$t = t_i$ at $r = r_i$ $t = t_0$ at $r = r_0$	$\frac{t-t_i}{P} = \left(\frac{r}{r_0}\right)^2 - \left(\frac{r}{r_0}\right)^2 + \left[1 - \left(\frac{r_i}{r_0}\right)^2 + \frac{t_0 - t_i}{P}\right]\frac{\ln\frac{r}{r_i}}{\ln\frac{r_0}{r_i}}$	$\frac{t_{av}-t_i}{P} = \frac{1}{2}\left[1 + \left(\frac{r_i}{r_0}\right)^2\right] - \frac{1-\left(\frac{r_i}{r_0}\right)^2}{\ln\left(\frac{r_0}{r_i}\right)^2} + \frac{t_0 - t_i}{P}\left[\frac{1}{1-\left(\frac{r_i}{r_0}\right)^2} - \frac{1}{\ln\left(\frac{r_0}{r_i}\right)^2}\right]$	$\frac{t_{max}-t_i}{P}$ at $\frac{r}{r_i} = \sqrt{\frac{\left(\frac{r_0}{r_i}\right)^2}{\ln\left(\frac{r_0}{r_i}\right)^2}\left[1 - \left(\frac{r_i}{r_0}\right)^2 + \frac{t_0 - t_i}{P}\right]}$
		$t_0 = t_i$	$\frac{t-t_i}{P} = \left(\frac{r_i}{r_0}\right)^2 - \left(\frac{r}{r_0}\right)^2 + \left[1 - \left(\frac{r_i}{r_0}\right)^2\right]\frac{\ln\frac{r}{r_i}}{\ln\frac{r_0}{r_i}}$	$\frac{t_{av}-t_i}{P} = \frac{1}{2}\left[1 + \left(\frac{r_i}{r_0}\right)^2\right] - \frac{1-\left(\frac{r_i}{r_0}\right)^2}{\ln\left(\frac{r_0}{r_i}\right)^2}$	$\frac{t_{max}-t_i}{P} = \left(\frac{r_i}{r_0}\right)^2 + \frac{1-\left(\frac{r_i}{r_0}\right)^2}{\ln\left(\frac{r_0}{r_i}\right)^2}\left\{\ln\left[\frac{\left(\frac{r_0}{r_i}\right)^2 - 1}{\ln\left(\frac{r_0}{r_i}\right)^2}\right] - 1\right\}$ at $\frac{r}{r_i} = \sqrt{\frac{\left(\frac{r_0}{r_i}\right)^2 - 1}{\ln\left(\frac{r_0}{r_i}\right)^2}}$
		$t = t_i$ at $r = r_i$ $\frac{dt}{dr} = 0$ at $r = r_0$	$\frac{t-t_i}{P} = \left(\frac{r_i}{r_0}\right)^2 - \left(\frac{r}{r_0}\right)^2 + \ln\left(\frac{r}{r_i}\right)^2$	$\frac{t_{av}-t_i}{P} = \frac{1}{2}\left[\left(\frac{r_i}{r_0}\right)^2 - 3\right] + \frac{\ln\left(\frac{r_0}{r_i}\right)^2}{1-\left(\frac{r_i}{r_0}\right)^2}$	$\frac{t_{max}-t_i}{P} = \left(\frac{r_i}{r_0}\right)^2 - 1 + \ln\left(\frac{r_0}{r_i}\right)^2$ at $r = r_0$
		$\frac{dt}{dr} = 0$ at $r = r_i$ $t = t_0$ at $r = r_0$	$\frac{t-t_0}{P} = 1 - \left(\frac{r}{r_0}\right)^2 + \left(\frac{r_i}{r_0}\right)^2 \ln\left(\frac{r_0}{r}\right)^2$	$\frac{t_{av}-t_0}{P} = \frac{1}{2}\left[1 - 3\left(\frac{r_i}{r_0}\right)^2\right] + \frac{\left(\frac{r_i}{r_0}\right)^2 \ln\left(\frac{r_0}{r_i}\right)^2}{\left(\frac{r_0}{r_i}\right)^2 - 1}$	$\frac{t_{max}-t_0}{P} = 1 - \left(\frac{r_i}{r_0}\right)^2 - \left(\frac{r_i}{r_0}\right)^2 \ln\left(\frac{r_0}{r_i}\right)^2$ at $r = r_i$
Solid sphere	$\frac{q'''r_0^2}{6k}$	$t = t_0$ at $r = r_0$	$\frac{t-t_0}{P} = 1 - \left(\frac{r}{r_0}\right)^2$	$\frac{t_{av}-t_0}{P} = \frac{2}{5}$	$\frac{t_{max}-t_0}{P} = 1$ at $r = 0$
Spherical shell	$\frac{q'''r_0^2}{6k}$	$t = t_i$ at $r = r_i$ $t = t_0$ at $r = r_0$	$\frac{t-t_i}{P} = \left(\frac{r_i}{r_0}\right)^2 - \left(\frac{r}{r_0}\right)^2 + \left(1 + \frac{r_i}{r_0}\right)\left(1 - \frac{r_i}{r}\right) + \frac{t_0 - t_i}{P} \cdot \frac{1 - \frac{r_i}{r}}{1 - \frac{r_i}{r_0}}$	$\frac{t_{av}-t_i}{P} = \frac{1}{1-\left(\frac{r_i}{r_0}\right)^3}\left\{\frac{1}{2}\left[\left(\frac{r_i}{r_0}\right)^4 + \left(\frac{r_i}{r_0}\right)^3 - \left(\frac{r_i}{r_0}\right)^2 - \left(\frac{r_i}{r_0}\right)\right] + \frac{2}{5}\left[1 - \left(\frac{r_i}{r_0}\right)^5\right] + \frac{t_0 - t_i}{P}\left[1 - \frac{1}{2}\frac{r_i}{r_0} - \frac{1}{2}\left(\frac{r_i}{r_0}\right)^3\right]\right\}$	$\frac{t_{max}-t_i}{P}$ at $\frac{r}{r_i} = \left\{\frac{1}{2}\frac{r_0}{r_i}\left(1 + \frac{r_0}{r_i}\right) \frac{t_0 - t_i}{P} \cdot \frac{\frac{1}{2}\left(\frac{r_0}{r_i}\right)^2}{1 - \frac{r_i}{r_0}}\right\}^{\frac{1}{3}}$
		$t_0 = t_i$	$\frac{t-t_i}{P} = \left(\frac{r_i}{r_0}\right)^2 - \left(\frac{r}{r_0}\right)^2 + \left(1 + \frac{r_i}{r_0}\right)\left(1 - \frac{r_i}{r}\right)$	$\frac{t_{av}-t_i}{P} = \frac{\frac{1}{2}\left[\left(\frac{r_i}{r_0}\right)^4 + \left(\frac{r_i}{r_0}\right)^3 - \left(\frac{r_i}{r_0}\right)^2 - \left(\frac{r_i}{r_0}\right)\right] + \frac{2}{5}\left[1 - \left(\frac{r_i}{r_0}\right)^5\right]}{1 - \left(\frac{r_i}{r_0}\right)^3}$	$\frac{t_{max}-t_i}{P} = \left(\frac{r_i}{r_0}\right)^2 - \left[\frac{1}{2}\left(\frac{r_i}{r_0}\right)^2 - \frac{1}{2}\frac{r_i}{r_0}\right]^{\frac{2}{3}} + \left(1 + \frac{r_i}{r_0}\right)\left[1 - \left(\frac{2\frac{r_i}{r_0}}{1 + \frac{r_i}{r_0}}\right)^{\frac{1}{3}}\right]$ at $\frac{r}{r_i} = \left[\frac{1}{2}\frac{r_0}{r_i}\left(1 + \frac{r_0}{r_i}\right)\right]^{\frac{1}{3}}$
		$t = t_i$ at $r = r_i$ $\frac{dt}{dr} = 0$ at $r = r_0$	$\frac{t-t_i}{P} = \left(\frac{r_i}{r_0}\right)^2 - \left(\frac{r}{r_0}\right)^2 + 2\left(\frac{r_0}{r_i} - \frac{r_0}{r}\right)$	$\frac{t_{av}-t_i}{P} = 4\left(\frac{r_i}{r_0}\right)^2 + 2\left(\frac{r_0}{r_i}\right) - \frac{18}{5}\frac{1-\left(\frac{r_i}{r_0}\right)^5}{1-\left(\frac{r_i}{r_0}\right)^3}$	$\frac{t_{max}-t_i}{P} = \left(\frac{r_i}{r_0}\right)^2 + 2\frac{r_0}{r_i} - 3$ at $r = r_0$
		$\frac{dt}{dr} = 0$ at $r = r_i$ $t = t_0$ at $r = r_0$	$\frac{t-t_0}{P} = 1 - \left(\frac{r}{r_0}\right)^2 + 2\left(\frac{r_i}{r_0}\right)^2\left(\frac{r_i}{r_0} - \frac{r}{r_i}\right)$	$\frac{t_{av}-t_0}{P} = 2\left(\frac{r_i}{r_0}\right)^3 + 4 - \frac{18}{5}\frac{1-\left(\frac{r_i}{r_0}\right)^5}{1-\left(\frac{r_i}{r_0}\right)^3}$	$\frac{t_{max}-t_0}{P} = 1 - 3\left(\frac{r_i}{r_0}\right)^2 + 2\left(\frac{r_i}{r_0}\right)^3$ at $r = r_i$

NOMENCLATURE is as follows:

q''' = volumetric heat generation rate (Btu/ft³/hr)
δ = thickness of flat plate (ft)
x = thickness coordinate (ft)
k = thermal conductivity (Btu/hr/ft/° F)
t = temperature (° F)

and Temperature Distributions

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[Chart is based on work done at Curtiss-Wright Nuclear Power Dept.]

Thermal Stress			
Parameter R	Stress distribution	Stress at center or at inner surface	Stress at outer surface
$\frac{E\alpha}{1-\mu}\frac{q'''\delta^2}{2k}$	$\frac{\sigma}{R}=\frac{1}{6}-\frac{x}{\delta}+\left(\frac{x}{\delta}\right)^2$	$\frac{\sigma}{R}=-\frac{1}{12}$ at midplane	$\frac{\sigma}{R}=\frac{1}{6}$
	$\frac{\sigma}{R}=\frac{1}{6}-\frac{x}{\delta}+\left(\frac{x}{\delta}\right)^2$	$\frac{\sigma}{R}=-\frac{1}{12}$ at midplane	$\frac{\sigma}{R}=\frac{1}{6}$
	$\frac{\sigma}{R}=\frac{1}{6}-\frac{x}{\delta}+\left(\frac{x}{\delta}\right)^2$	$\frac{\sigma}{R}=-\frac{1}{12}$ at midplane	$\frac{\sigma}{R}=\frac{1}{6}$
$\frac{E\alpha}{1-\mu}\frac{q'''r_o^2}{4k}$	$\frac{\sigma_t}{R}=\frac{1}{4}\left[3\left(\frac{r}{r_o}\right)^2-1\right]$ $\qquad \frac{\sigma_r}{R}=\frac{1}{4}\left[\left(\frac{r}{r_o}\right)^2-1\right]$	$\frac{\sigma_t}{R}=\frac{\sigma_r}{R}=-\frac{1}{4}$ at axis	$\frac{\sigma_t}{R}=\frac{\sigma_r}{R}=\frac{1}{2}$
	$\frac{\sigma_z}{R}=\left(\frac{r}{r_o}\right)^2-\frac{1}{2}$	$\frac{\sigma_z}{R}=-\frac{1}{2}$ at axis	$\frac{\sigma_r}{R}=0$
$\frac{E\alpha}{1-\mu}\frac{q'''r_o^2}{4k}$	$\frac{\sigma_t}{R}=\frac{1}{4}\left[3\left(\frac{r}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)^2+\left(\frac{r_i}{r}\right)^2+1\right]-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}\left[\ln\frac{r}{r_i}+1\right]+\frac{t_o-t_i}{2P}\left[\frac{1+\left(\frac{r_i}{r}\right)^2}{1-\left(\frac{r_i}{r_o}\right)^2}-\frac{\ln\frac{r}{r_i}+1}{\ln\frac{r_o}{r_i}}\right]$	$\frac{\sigma_t}{R}=\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{1}{2}-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}+\frac{t_o-t_i}{P}\left[\frac{1}{1-\left(\frac{r_i}{r_o}\right)^2}-\frac{1}{\ln\left(\frac{r_o}{r_i}\right)^2}\right]$	$\frac{\sigma_t}{R}=\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{1}{2}-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}+\frac{t_o-t_i}{P}\left[\frac{1}{\left(\frac{r_o}{r_i}\right)^2-1}-\frac{1}{\ln\left(\frac{r_o}{r_i}\right)^2}\right]$
	$\frac{\sigma_r}{R}=\frac{1}{4}\left[\left(\frac{r}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)^2-\left(\frac{r_i}{r}\right)^2+1\right]-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}\ln\frac{r}{r_i}+\frac{t_o-t_i}{2P}\left[\frac{1-\left(\frac{r_i}{r}\right)^2}{1-\left(\frac{r_i}{r_o}\right)^2}-\frac{\ln\frac{r}{r_i}}{\ln\frac{r_o}{r_i}}\right]$	$\frac{\sigma_r}{R}=0$	$\frac{\sigma_r}{R}=0$
	$\frac{\sigma_z}{R}=\left(\frac{r}{r_o}\right)^2-\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{1}{2}-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}\left[\ln\left(\frac{r}{r_i}\right)^2+1\right]+\frac{t_o-t_i}{P}\left[\frac{1}{1-\left(\frac{r_i}{r_o}\right)^2}-\frac{\ln\left(\frac{r}{r_i}\right)^2+1}{\ln\left(\frac{r_o}{r_i}\right)^2}\right]$	$\frac{\sigma_z}{R}=\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{1}{2}-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}+\frac{t_o-t_i}{P}\left[\frac{1}{1-\left(\frac{r_i}{r_o}\right)^2}-\frac{1}{\ln\left(\frac{r_o}{r_i}\right)^2}\right]$	$\frac{\sigma_z}{R}=\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{1}{2}-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}+\frac{t_o-t_i}{P}\left[\frac{1}{\left(\frac{r_o}{r_i}\right)^2-1}-\frac{1}{\ln\left(\frac{r_o}{r_i}\right)^2}\right]$
$\frac{E\alpha}{1-\mu}\frac{q'''r_o^2}{4k}$	$\frac{\sigma_t}{R}=\frac{1}{4}\left[3\left(\frac{r}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)^2+\left(\frac{r_i}{r}\right)^2+1\right]-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}\left[\ln\frac{r}{r_i}+1\right]$	$\frac{\sigma_t}{R}=\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{1}{2}-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}$	$\frac{\sigma_t}{R}=\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{1}{2}-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}$
	$\frac{\sigma_r}{R}=\frac{1}{4}\left[\left(\frac{r}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)^2-\left(\frac{r_i}{r}\right)^2+1\right]-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}\ln\frac{r}{r_i}$	$\frac{\sigma_r}{R}=0$	$\frac{\sigma_r}{R}=0$
	$\frac{\sigma_z}{R}=\left(\frac{r}{r_o}\right)^2-\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{1}{2}-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}\left[\ln\left(\frac{r}{r_i}\right)^2+1\right]$	$\frac{\sigma_z}{R}=\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{1}{2}-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}$	$\frac{\sigma_z}{R}=\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{1}{2}-\frac{1-\left(\frac{r_i}{r_o}\right)^2}{\ln\left(\frac{r_o}{r_i}\right)^2}$
$\frac{E\alpha}{1-\mu}\frac{q'''r_o^2}{4k}$	$\frac{\sigma_t}{R}=\frac{1}{4}\left[3\left(\frac{r}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)^2-\left(\frac{r_i}{r}\right)^2-5\right]+\frac{1+\left(\frac{r_i}{r}\right)^2}{1-\left(\frac{r_i}{r_o}\right)^2}\ln\frac{r_o}{r_i}-\ln\frac{r}{r_i}$	$\frac{\sigma_t}{R}=\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2-\frac{3}{2}+\frac{\ln\left(\frac{r_o}{r_i}\right)^2}{1-\left(\frac{r_i}{r_o}\right)^2}$	$\frac{\sigma_t}{R}=-\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2-\frac{1}{2}+\frac{\ln\left(\frac{r_o}{r_i}\right)^2}{\left(\frac{r_o}{r_i}\right)^2-1}$
	$\frac{\sigma_r}{R}=\frac{1}{4}\left[\left(\frac{r}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)^2+\left(\frac{r_i}{r}\right)^2-1\right]+\frac{1-\left(\frac{r_i}{r}\right)^2}{1-\left(\frac{r_i}{r_o}\right)^2}\ln\frac{r_o}{r_i}-\ln\frac{r}{r_i}$	$\frac{\sigma_r}{R}=0$	$\frac{\sigma_r}{R}=0$
	$\frac{\sigma_z}{R}=\left(\frac{r}{r_o}\right)^2-\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2-\frac{3}{2}+\frac{\ln\left(\frac{r_o}{r_i}\right)^2}{1-\left(\frac{r_i}{r_o}\right)^2}-\ln\left(\frac{r}{r_i}\right)^2$	$\frac{\sigma_z}{R}=\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2-\frac{3}{2}+\frac{\ln\left(\frac{r_o}{r_i}\right)^2}{1-\left(\frac{r_i}{r_o}\right)^2}$	$\frac{\sigma_z}{R}=-\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2-\frac{1}{2}+\frac{\ln\left(\frac{r_o}{r_i}\right)^2}{\left(\frac{r_o}{r_i}\right)^2-1}$
	$\frac{\sigma_t}{R}=\frac{1}{4}\left[3\left(\frac{r}{r_o}\right)^2-5\left(\frac{r_i}{r_o}\right)^2-\left(\frac{r_i}{r}\right)^2-1\right]+\frac{1+\left(\frac{r_i}{r}\right)^2}{\left(\frac{r_o}{r_i}\right)^2-1}\ln\frac{r_o}{r_i}-\left(\frac{r_i}{r_o}\right)^2\ln\frac{r}{r_i}$	$\frac{\sigma_t}{R}=-\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2-\frac{1}{2}+\frac{\ln\left(\frac{r_o}{r_i}\right)^2}{\left(\frac{r_o}{r_i}\right)^2-1}$	$\frac{\sigma_t}{R}=\frac{1}{2}-\frac{3}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{\left(\frac{r_i}{r_o}\right)^2\ln\left(\frac{r_o}{r_i}\right)^2}{\left(\frac{r_o}{r_i}\right)^2-1}$
	$\frac{\sigma_r}{R}=\frac{1}{4}\left[\left(\frac{r}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)^2+\left(\frac{r_i}{r}\right)^2-1\right]+\frac{1-\left(\frac{r_i}{r}\right)^2}{\left(\frac{r_o}{r_i}\right)^2-1}\ln\frac{r_o}{r_i}-\left(\frac{r_i}{r_o}\right)^2\ln\frac{r}{r_i}$	$\frac{\sigma_r}{R}=0$	$\frac{\sigma_r}{R}=0$
	$\frac{\sigma_z}{R}=\left(\frac{r}{r_o}\right)^2-\frac{3}{2}\left(\frac{r_i}{r_o}\right)^2-\frac{1}{2}+\frac{\left(\frac{r_i}{r_o}\right)^2\ln\left(\frac{r_o}{r_i}\right)^2}{\left(\frac{r_o}{r_i}\right)^2-1}+\left(\frac{r_i}{r_o}\right)^2\ln\left(\frac{r_o}{r_i}\right)^2$	$\frac{\sigma_z}{R}=-\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2-\frac{1}{2}+\frac{\ln\left(\frac{r_o}{r_i}\right)^2}{\left(\frac{r_o}{r_i}\right)^2-1}$	$\frac{\sigma_z}{R}=\frac{1}{2}-\frac{3}{2}\left(\frac{r_i}{r_o}\right)^2+\frac{\left(\frac{r_i}{r_o}\right)^2\ln\left(\frac{r_o}{r_i}\right)^2}{\left(\frac{r_o}{r_i}\right)^2-1}$
$\frac{E\alpha}{1-\mu}\frac{q'''r_o^2}{6k}$	$\frac{\sigma_t}{R}=\frac{2}{5}\left[2\left(\frac{r}{r_o}\right)^2-1\right]$ $\qquad \frac{\sigma_r}{R}=\frac{2}{5}\left[\left(\frac{r}{r_o}\right)^2-1\right]$	$\frac{\sigma_t}{R}=\frac{\sigma_r}{R}=-\frac{2}{5}$	$\frac{\sigma_t}{R}=\frac{2}{5}$ $\qquad \frac{\sigma_r}{R}=0$
$\frac{E\alpha}{1-\mu}\frac{q'''r_o^2}{6k}$	$\frac{\sigma_t}{R}=\frac{1}{2}\left[\frac{r_i}{r_o}+1+\frac{t_o-t_i}{P}\frac{1}{1-\frac{r_i}{r_o}}\right]\left[\frac{2+\left(\frac{r_i}{r}\right)^3}{1-\left(\frac{r_i}{r_o}\right)^3}\left(1-\frac{r_i}{r_o}\right)+\frac{r_i}{r}-2\right]+\frac{1}{5}\left(\frac{r_i}{r_o}\right)^2\left\{\frac{2+\left(\frac{r_i}{r}\right)^3}{1-\left(\frac{r_i}{r_o}\right)^3}\left[1-\left(\frac{r_o}{r_i}\right)^2\right]+4\left(\frac{r}{r_i}\right)^2-2\right\}$	$\frac{\sigma_t}{R}=1\Big/\left[1-\left(\frac{r_i}{r_o}\right)^3\right]\left\{\frac{1}{2}\left[\left(\frac{r_i}{r_o}\right)^4+\left(\frac{r_i}{r_o}\right)^3-\left(\frac{r_i}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)\right]+\frac{2}{5}\left[1-\left(\frac{r_i}{r_o}\right)^5\right]+\frac{t_o-t_i}{P}\left[1-\frac{1}{2}\frac{r_i}{r_o}-\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2\right]\right\}$	$\frac{\sigma_t}{R}=1\Big/\left[1-\left(\frac{r_i}{r_o}\right)^3\right]\left\{\frac{1}{2}\left[\left(\frac{r_i}{r_o}\right)^4+\left(\frac{r_i}{r_o}\right)^3-\left(\frac{r_i}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)\right]+\frac{2}{5}\left[1-\left(\frac{r_i}{r_o}\right)^5\right]+\frac{t_o-t_i}{P}\left[\left(\frac{r_i}{r_o}\right)^3\frac{1}{2}\frac{r_i}{r_o}-\frac{1}{2}\left(\frac{r_i}{r_o}\right)^2\right]\right\}$
	$\frac{\sigma_r}{R}=\left[\frac{r_i}{r_o}+1+\frac{t_o-t_i}{P}\frac{1}{1-\frac{r_i}{r_o}}\right]\left[\frac{1-\left(\frac{r_i}{r}\right)^3}{1-\left(\frac{r_i}{r_o}\right)^3}\left(1-\frac{r_i}{r_o}\right)+\frac{r_i}{r}-1\right]+\frac{2}{5}\left(\frac{r_i}{r_o}\right)^2\left\{\frac{1-\left(\frac{r_i}{r}\right)^3}{1-\left(\frac{r_i}{r_o}\right)^3}\left[1-\left(\frac{r_o}{r_i}\right)^2\right]+\left(\frac{r}{r_i}\right)^2-1\right\}$	$\frac{\sigma_r}{R}=0$	$\frac{\sigma_r}{R}=0$
	$\frac{\sigma_z}{R}=\frac{3}{10}\left[1-\left(\frac{r_i}{r}\right)^2\right]\frac{2+\left(\frac{r_i}{r}\right)^3}{1-\left(\frac{r_i}{r_o}\right)^3}+\frac{1}{2}\left(\frac{r_i}{r_o}+1\right)\left(\frac{r_i}{r}-2\right)+\frac{1}{5}\left(\frac{r_i}{r}\right)^2\left[4\left(\frac{r}{r_i}\right)^2-2\right]$	$\frac{\sigma_z}{R}=\frac{\frac{1}{2}\left[\left(\frac{r_i}{r_o}\right)^4+\left(\frac{r_i}{r_o}\right)^3-\left(\frac{r_i}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)\right]+\frac{2}{5}\left[1-\left(\frac{r_i}{r_o}\right)^5\right]}{1-\left(\frac{r_i}{r_o}\right)^3}$	$\frac{\sigma_z}{R}=\frac{\frac{1}{2}\left[\left(\frac{r_i}{r_o}\right)^4+\left(\frac{r_i}{r_o}\right)^3-\left(\frac{r_i}{r_o}\right)^2-\left(\frac{r_i}{r_o}\right)\right]+\frac{2}{5}\left[1-\left(\frac{r_i}{r_o}\right)^5\right]}{1-\left(\frac{r_i}{r_o}\right)^3}$
	$\frac{\sigma_r}{R}=\frac{3}{5}\left[1-\left(\frac{r_i}{r}\right)^2\right]\frac{1-\left(\frac{r_i}{r}\right)^3}{1-\left(\frac{r_i}{r_o}\right)^3}+\left(\frac{r_i}{r_o}+1\right)\left(\frac{r_i}{r}-1\right)+\frac{2}{5}\left(\frac{r_i}{r_o}\right)^2\left[\left(\frac{r}{r_i}\right)^2-1\right]$	$\frac{\sigma_r}{R}=0$	$\frac{\sigma_r}{R}=0$
	$\frac{\sigma_t}{R}=\left[\frac{1}{5}\left(\frac{r_i}{r_o}\right)^2+\frac{r_o}{r_i}-\frac{6}{5}\right]\frac{2+\left(\frac{r_i}{r}\right)^3}{1-\left(\frac{r_i}{r_o}\right)^3}+\frac{r_o}{r_i}\left(\frac{r_i}{r}-2\right)+\frac{1}{5}\left(\frac{r_i}{r_o}\right)^2\left[4\left(\frac{r}{r_i}\right)^2-2\right]$	$\frac{\sigma_t}{R}=4\left(\frac{r_i}{r}\right)^2+2\frac{r_o}{r_i}-\frac{18}{5}\frac{1-\left(\frac{r_i}{r_o}\right)^5}{1-\left(\frac{r_i}{r_o}\right)^3}$	$\frac{\sigma_t}{R}=3\left(\frac{r_i}{r_o}\right)^2+3-\frac{18}{5}\frac{1-\left(\frac{r_i}{r_o}\right)^5}{1-\left(\frac{r_i}{r_o}\right)^3}$
	$\frac{\sigma_r}{R}=2\left[\frac{1}{5}\left(\frac{r_i}{r}\right)^2+\frac{r_o}{r_i}-\frac{6}{5}\right]\frac{1-\left(\frac{r_i}{r}\right)^3}{1-\left(\frac{r_i}{r_o}\right)^3}+2\frac{r_o}{r_i}\left(\frac{r_i}{r}-1\right)+\frac{2}{5}\left(\frac{r_i}{r_o}\right)^2\left[\left(\frac{r}{r_i}\right)^2-1\right]$	$\frac{\sigma_r}{R}=0$	$\frac{\sigma_r}{R}=0$
	$\frac{\sigma_t}{R}=\left(\frac{r_i}{r_o}\right)^2\left\{\left[\frac{16}{5}-\frac{r_i}{r_o}-\frac{1}{5}\left(\frac{r_o}{r_i}\right)^2\right]\frac{2+\left(\frac{r_i}{r}\right)^3}{1-\left(\frac{r_i}{r_o}\right)^3}+\frac{r_i}{r}+\frac{4}{5}\left(\frac{r}{r_i}\right)^2-\frac{12}{5}\right\}$	$\frac{\sigma_t}{R}=3\left(\frac{r_i}{r_o}\right)^2+3-\frac{18}{5}\frac{1-\left(\frac{r_i}{r_o}\right)^5}{1-\left(\frac{r_i}{r_o}\right)^3}$	$\frac{\sigma_t}{R}=2\left(\frac{r_i}{r_o}\right)^3+4-\frac{18}{5}\frac{1-\left(\frac{r_i}{r_o}\right)^5}{1-\left(\frac{r_i}{r_o}\right)^3}$
	$\frac{\sigma_r}{R}=2\left(\frac{r_i}{r_o}\right)^2\left\{\left[\frac{6}{5}-\frac{r_i}{r_o}-\frac{1}{5}\left(\frac{r_o}{r_i}\right)^2\right]\frac{1-\left(\frac{r_i}{r}\right)^3}{1-\left(\frac{r_i}{r_o}\right)^3}+\frac{r_i}{r}+\frac{1}{5}\left(\frac{r}{r_i}\right)^2-\frac{6}{5}\right\}$	$\frac{\sigma_r}{R}=0$	$\frac{\sigma_r}{R}=0$

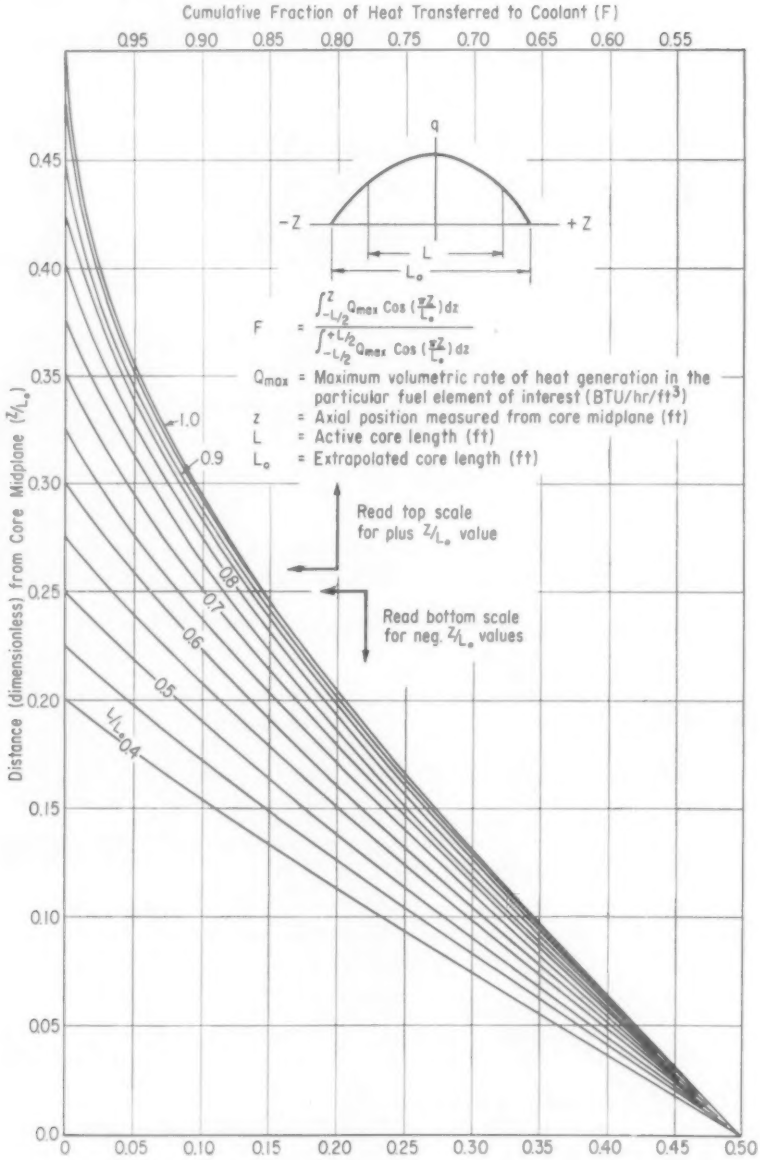
r = radius of cylinder and sphere (ft)
E = modulus of elasticity (psi)
α = coefficient of thermal expansion (in./in./° F)
μ = Poisson's ratio
σ = stress (psi); subscripts t, r, z refer to tangential, radial and axial components

Heat Transferred from Reactor Core to Coolant

By S. B. MENKES, *Nuclear Development Corporation of America, White Plains, N. Y.*

THIS GRAPH PROVIDES a rapid and reasonably accurate method of ascertaining the cumulative fraction of heat that is transferred from a reactor core to the coolant.

It assumes a chopped-cosine flux distribution and is particularly useful in calculations of burnout heat flux. The value of the total heat transferred in a particular channel, when multiplied by F, gives the fraction transferred up to a particular axial position and thus can be used to determine point enthalpy values.



Gamma Rays from Thermal-Neutron Capture

By E. TROUBETZKOY and H. GOLDSTEIN, *Nuclear Development Corp. of America, White Plains, New York*

THESE DATA on capture gamma rays (gamma rays emitted immediately upon the capture of a thermal neutron) have been compiled with the needs of reactor shielding in mind. In structure, the compilation is an outgrowth of the Mittelman-Liedtke compilation.* As in that paper, the heart of the compilation is Table 1, which lists the intensities of the capture γ-rays in seven energy intervals from 0 to >9 Mev for various nuclei. For nuclei in which the capture spectra consist entirely of discrete lines, the main table is supplemented by Table 2, listing line energies and intensities.

It should be noted that, in both Tables 1 and 2, intensities are quoted in photons per 100 radiative captures.

Sources of Data

The overwhelming bulk of recent data comes from only two groups. One is at Chalk River, initiated by B. B. Kinsey and continued in recent years by G. A. Bartholomew. They have so far studied the spectra from about 60 elements, using mainly a magnetic-pair spectrometer in the γ-ray range of ~3–12 Mev. The other group, under L. V. Groshev, is at the Institute of Atomic Energy of the Academy of Sciences, U. S. S. R. Using a magnetic Compton spectrometer, they have investigated the spectra of some 50 elements in the range 0.3–12 Mev, but with primary interest in the lower energy range. The reports of these groups, and the three other sources from which the data presented here are taken, are cited in Table 1.

The energy ranges covered by the two main groups have considerable overlap. Unfortunately, there is frequent discrepancy in measured intensity in the overlapping regions, at times greater than a factor of 2.

These discrepancies, which clamor for resolution, occur most often in the 3–4-Mev region—where the γ-rays are the most penetrating in many shielding applications. For arbitrary reasons, preference in such disagreements has always been given to the Chalk River data (these intensities are indicated in Table 2 by putting them in italic).

Although Table 1 is gratifyingly longer than earlier compilations, it is clear that much remains to be done. For a few nuclei of interest to reactor applications, no capture spectra have been reported; notable are the fissionable isotopes such as U^{235} and Pu^{239}. Many of the uninvestigated rare earths are also of interest, e.g., germanium. In many cases the spectrum has been measured only above 3 Mev, e.g., zirconium.

Higher-Energy Neutrons

Finally, all the data summarized here are for the capture of thermal neutrons. Recent evidence indicates clearly that there may be substantial differences in the spectra of neutrons captured in the resonance region or at higher energies. The changes are not likely to be large for the "continuous" spectra, but discrete transitions, especially to the ground state or its vicinity, may show significant changes. The variations are of two kinds: (1) statistical fluctuation of the partial radiation widths from resonance to resonance with an expected variance of unity or less; (2) a possibly more serious variation resulting from the operation of selection rules if the capturing resonances have different spin states. A prominent line in the thermal-capture spectrum may be completely suppressed in capture at a resonant energy.

Experiments at other than thermal energies are quite difficult, especially with the light nuclei for which the changes are expected to be the most significant, and it is not likely that any large volume of information of such fluctuations will become available in the near future. The shield designer should, however, be aware of the possibilities of differences from the capture spectra listed here.

* * *

This compilation is based on ORNL-2904, prepared for Oak Ridge National Laboratory under Subcontract No. 1216.

See tables, pp. 172–3→

* P. S. Mittleman, R. A. Liedtke, NUCLEONICS **13**, No. 5, 50 (1955).

TABLE 1—Gamma-Ray Spectra from Thermal-Neutron Capture[a]

Target nucleus	Photons/100 radiative captures 0–1 Mev	1–2 Mev	2–3 Mev	3–5 Mev	5–7 Mev	7–9 Mev	>9 Mev	Highest energy γ-ray (Mev)	Average no. of photons per capture[b]
H	0	0	100	0	0	0	0	2.230	
D	0	0	0	0	100	0	0	6.244	
He									
Li					~40	~60	0	7.26	
Be	0	0	0	54	73	0	0	6.80	
B^{10}	0	0	0	>110	>28	≥6	0.8	11.43	
C	0	0	0	100	0	0	0	4.95	1.3
N^{14}				>54	≥11	15	12	10.833	
O									
F		>100[c]			≥111	0	0	6.600	
Ne									
Na	>96	127	187	70	31	0	0	6.41	<2
Mg			>28	>72	10	3.3	0.57	11.089	
Al	>236	195[d]	69	62	19	19	0	7.724	~2
Si	>100	63	30	89	11	4.1	0.1	10.59	
P	>290	97	55	98	27	7.2	0	7.94	
S	>70	32	72	70	44	6.5	0	8.64	
Cl	>49	85	41	47	55	24	0	8.55	3.1
A									
K	>100	81	57	106	37	4.7	0	9.36	
Ca	>14	191	77	85	64	1.8	0	7.83	
Sc	>52	59	38	65	29	12	0	8.85	
Ti	>54	160	16	24	78	1.3	0.2	10.47	
V	>83	132[e]	11.4	21	67	16	0	7.98	2.5
Cr	>85	41	21	12	23	39	6.4	9.716	>2
Mn	>125[f]	91[g]	60[h]	50	34	17	0	7.261	2.6
Fe	>75	60	27	23	25	38	2.1	10.16	1.7
Co	>61	26	17	42	52	8.5	0	7.486	
Ni	>84	40	23	23	34	62	0.8	8.997	
Cu	>68	47	26	30	27	43	0	7.914	2.6
Zn	>156	93	67	48	29	16	1	9.51	
Ga				57	34	0.2	0	7.73	
Ge									
As				47	22	1	0	7.30	2.7
Se				65	27	9	1.7	10.483	
Br				79	41	6.4	0	7.879	
Kr									
Rb									
Sr				69	51	14	0.1	9.22	
Y	>71	23	6	50	59	0	0	6.850	
Zr				113	35	4	0	8.66	
Nb				54	14	0.4	0	7.19	2.6
Mo[a]	>137	>18		84	26	3	0.03	9.15	
Tc									
Ru									
Rh	>91	99	61	38	10	0	0	6.792	
Pd									
Ag	>92	87	64	70	17	0.5	0	7.27	2.9
Cd	>135	92	96	73	17	1	0.1	9.046	4.1
In	>102[i]	197[j]	78[k]	36	4	0	0	5.86	3.3
Sn[a]	>216	153	67	139	33	4	0.4	9.35	
Sb[a]	150	99	58	36	12	0	0	6.80	
Te	>58								
I[a]	>30			97	22	0	0	6.71	
Xe									
Cs[a]	>46			61	25	0	0	6.702	
Ba				75	14	1.4	0.1	9.23	
La	>21.7	8.2		>35	>12.5	0	0	5.045	
Ce									
Pr				34	8	0	0	5.83	
Nd	>105								
Pm									
Sm	>167	150	109	45	5	1	0	7.89	5.6
Eu	106	153	109	56	6.5	0	0	6.05	
Ga	194	117	100	23	34	0.3	0	7.33	3.9
Tb	>7								
Dy	90	102	106	43	10	0	0	5.87	
Ho		98	77	49	8	0	0	6.1	
Er	225	145	133	103	14	0	0	6.680	
Tm[a]		91	73	55	10	0	0	6.5	
Yb									
Lu									
Hf	>137	137	85	52	12	0.5	0	7.62	
Ta	>137	99	66	55	5	0	0	6.04	
W	>68	82	59	53	15	0.5	0	7.42	
Re	124	88	62	51	10.5	0	0	6.14	
Os									
Ir	98	85	58	51	19.6	0	0	6.088	
Pt	>109	92	64	45	15	1	0	7.920	
Au	>100	69	33	68	38	0.1	0	6.494	3.5
Hg	>94	122	55	86	41	0	0	6.446	3.3
Tl				76	62	0	0	6.54	
Pb	0	0	0	0	7	93	0	7.38	
Bi	0	0	0	100	0	0	0	4.17	
Po									
At									
Em									
Fr									
Ra									
Ac									
Th	>118	140	64	17	0	0	0	4.92	
Pa									
U^{235}	254	178	91	31	0	0	0	4.062	
Np									
Pu									

a. Almost all data in Table 1, with the exceptions shown below, are from the following U. S. S. R. and Canadian reports:
G. A. Bartholomew, L. A. Miggs. Compilation of thermal neutron capture γ-rays, CRGP-784, AECL-669 (1958)
L. V. Groshev, A. M. Demidov, V. N. Lutsenko, V. I. Pelikov, "Atlas of γ-Ray Spectra from Radiative Capture of Thermal Neutrons" (Atomizdat, Moscow, 1958; translation by Pergamon Press, New York)
Data was obtained from the following references for the elements indicated:
Sn, Sb: L. V. Groshev, B. I. Gavrilov, A. M. Demidov, *Atomnaya Energiya* **6**, 281 (1959)
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b. All values in this column are taken from C. O. Muehlhause, *Phys. Rev.* **79**, 277 (1950). They may therefore differ from the multiplicities deduced from the spectra directly.

c. Includes a 100%, 1.63-Mev gamma ray in Ne^{20} following 11s decay of F^{20}.

d. Includes a 100%, 1.78-Mev gamma ray in Si^{28} following 2.3m decay of Al^{28}.

e. Includes a 99.75%, 1.43-Mev gamma ray in Cr^{52} following 3.8m decay of V^{52}.

f. Includes a 99%, 0.85-Mev gamma ray in Fe^{56} following 2.6h decay of Mn^{56}.

g. Includes a 23%, 1.80-Mev gamma ray in Fe^{56} following 2.6h decay of Mn^{56}.

h. Includes a 15%, 2.13-Mev gamma ray in Fe^{56} following 2.6h decay of Mn^{56}.

i. Includes a 5%, 0.41-Mev and an 8%, 0.82-Mev gamma ray in Sn^{116} following 54m decay of In^{116}.

j. Includes a 36%, 1.09-Mev and a 63%, 1.29-Mev gamma ray in Sn^{116} following 54m decay of In^{116}.

k. Includes an 11%, 2.12-Mev gamma ray in Sn^{116} following 54m decay of In^{116}.

TABLE 2—Energies of Discrete Capture ν-Rays [Intensities (photons/100 radiative captures) in parentheses]

Be	**Mg**	7.79(0.8)	4.60(2.7)	1.85(3)	1.793(1.7)		1.10(≥2)
6.797(75)	11.089(0.03)	7.36(0.7)	4.38(7)	1.75(3)	1.760(5)	3.725(1.1)	0.467(≥6)
3.41(50)	10.08(0.04)	7.18(8)	3.69(4)	1.61(13)	1.589(5)	3.552(1.4)	0.436(≥3)
B	9.282(0.5)	6.88(0.4)	3.36(7)	1.51(5)	1.583(5)	3.43(3.9)	0.330(≥7)
11.43(0.8)	8.93(0.06)	6.76(1.5)	3.21(20)	1.40(2)	1.497(4)	3.24(2.9)	0.280(≥3.5)
8.91(6)	8.55(0.06)	6.40(11)	3.10(2)	1.27(2)	1.438(1.4)	3.146(2.1)	**Cu**
6.98(18)	8.149(3)	6.11(2.5)	2.94(20)	1.18(7)	1.378(87)	2.837(2.1)	7.914(17)
6.74(10)	7.36(0.06)	5.70(1)	2.82(4)	0.90(2)	1.320(0.5)	2.730(2.9)	7.634(8)
4.73(30)	7.16(0.11)	5.52(1)	2.70(2)	0.77(26)	1.119(1.5)	2.672(1)	7.296(5)
4.47(80)	6.735(1.2)	5.242(0.8)	2.55(4.4)	0.625(3)	0.984(1.6)	2.143(1.4)	7.16(2)
C	6.440(0.9)	5.11(8)	2.415(30)	**Ca**	0.3408(31)	1.802(2.3)	7.01(2)
4.948(70)	6.358(2.4)	4.933(75)	2.29(5)	7.83(0.4)	0.2530(0.35)	1.72(6.4)	6.69(3)
3.68(30)	5.76(0.6)	4.60(2.5)	2.00(3)	7.43(0.6)	0.2348(0.8)	1.626(6.1)	6.41(1)
N	5.51(0.6)	4.20(10)	1.52(1)	6.42(40)	0.2260(0.45)	1.53(1.9)	6.05(1)
10.833(11)	5.442(3)	3.976(4.2)	0.84(47)	5.89(6)	0.2160(0.5)	1.236(1.5)	5.75(0.2)
9.152(1)	5.05(1.7)	3.8(3)	**Cl**	5.66(3)	0.2040(0.7)	0.454(4.1)	5.64(0.6)
9.03(0.2)	4.93(2.7)	3.667(3.2)	7.77(7)	5.49(4)	0.1860(0.8)	0.364(6.7)	5.43(1)
8.54(0.2)	4.77(0.6)	3.540(60)	7.42(6)	4.95(5)	0.1805(0.8)	0.313(3.2)	5.31(1)
8.313(4)	4.21(2.5)	2.65(11)	6.98(2)	4.76(4)	**V**	**Cr**	5.18(0.6)
7.305(9)	3.918(47)		6.62(9)	4.45(18)	7.98(0.2)	9.716(5)	5.07(0.5)
7.164(≥0.8)	3.552(8)	2.10(12.8)	6.12(14)	3.62(10)	7.83(0.6)	8.881(14)	4.75(0.3)
6.323(17)	3.408(5)	1.95(3.4)	5.72(6)	2.810(≥3.6)	7.67(0.13)	8.499(5)	4.67(0.7)
5.559(14)	3.290(9)	1.7(3)	5.51(3)	2.660(≥2.0)	7.305(7)	7.929(6)	4.51(1.1)
5.530(18)	3.054(9)	1.5(3)	5.01(9)	2.004(12.7)	7.154(10)	7.67(0.2)	4.36(1.5)
5.293(35)	2.816(24)	1.28(16)	4.46(5)	1.944(39)	6.868(8)	7.54(0.2)	3.44(0.5)
5.263(22)	2.43(5)	**P**	4.06(7)	1.844(6.4)	6.62(0.24)	7.364(3)	3.11(0.7)
4.497(16)	1.83(11)	7.94(0.3)	3.62(4)	1.790(≥3.6)	6.508(16)	7.21(0.2)	2.65(0.7)
3.669(17)	1.07(13)	7.85(0.9)	3.40(3.6)	1.48(≥3.2)	5.879(2)	7.097(2.4)	2.52(0.8)
3.520(15)	**Al**	7.62(1)	3.08(4.5)	1.2(≥4.8)	5.744(7)	6.872(0.5)	0.276(20)
3.267(≤6)	7.724(20)	7.42(4)	3.02(3.5)	0.532(≥5)	5.511(8)	6.644(3)	0.205(4)
F	7.34(0.45)	6.76(14)	2.88(9.5)	0.463(≥9)	5.21(5)	6.358(0.4)	0.180(6)
6.600(30)	6.98(0.5)		2.83(2)	**Ti**	4.98(2)	6.28(0.9)	0.155(19)
6.019(16)	6.77(0.8)	6.33(0.6)	2.71(2)	10.621(0.03)	4.85(1.6)	6.12(0.8)	0.092(2.3)
5.54(24)	6.61(0.23)	6.14(0.9)	2.51(1)	9.376(0.08)	4.45(2)	6.00(1)	**Y**
5.28(27)	6.50(0.3)	6.02(1)	1.950(29)	9.189(0.08)	4.15(3)	5.61(2)	6.850(0.3)
5.10(14)	6.33(0.9)	5.71(3)	1.72(1)	8.342(0.05)	3.73(2.4)	5.26(1)	
4.50(15)	6.22(0.3)	5.41(1)	1.67(1)	8.252(0.17)	3.59(2.4)	4.83(0.8)	
1.36(40)	6.13(1.5)	5.27(5.5)	1.60(2.4)	7.996(0.08)	3.36(3)	3.72(2)	6.646(0.8)
Na	6.01(0.44)	4.92(3)	1.165(36)	7.844(0.03)	3.05(0.4)	3.02(2)	6.590(0.8)
6.96(<0.1)	5.89(0.5)	4.68(17)	0.79(23)	7.736(0.03)	2.85(0.6)	2.32(2)	6.072(45)
6.41(13)	5.78(0.8)	4.49(3)	0.51(<26)	7.628(0.08)	2.44(1)	1.88(2)	5.631(2)
5.61(5)	5.60(1.2)	4.38(8)	**K**	7.55(0.04)	2.30(0.5)	1.75(2)	4.108(9)
5.13(1)	5.41(1.2)	4.20(5)	9.39(0.08)	7.386(0.3)	2.13(3.4)	0.840(20)	2.800(0.9)
4.90(1.2)	5.32(0.55)	3.92(16)	8.45(0.1)	7.319(0.4)	2.02(1.1)	0.75(3)	2.270(1)
4.70(0.9)	5.21(1.5)	3.55(16)	7.757(4)	7.149(0.3)	1.93(1.6)	0.52(2)	1.382(3)
4.50(2.1)	5.14(3.9)	3.28(8)	7.34(0.4)	6.996(0.3)	1.77(3.8)	**Ni**	1.335(1.8)
4.30(0.5)	4.94(0.8)	3.04(5)	6.994(2)	6.947(0.17)	1.65(1.3)	8.997(26)	1.281(1.6)
4.18(2.1)	4.79(4.3)	2.93(2.2)	6.31(0.4)	6.753(41)	1.55(5.8)	8.532(11)	1.240(2.9)
3.96(8)	4.66(2.5)	2.87(3.4)	5.740 } (12)	6.550(5.9)	1.434†(100)	8.119(2.5)	1.215(1.5)
3.85(5)	4.45(1.4)	2.60(3.6)	5.66 }	6.413(29)	0.84(6)	7.817(6)	0.7767(39)
3.68(1.3)	4.29(4.3)	2.46(2.7)	5.38(6)	6.07(0.17)	0.79(3)	7.528(4)	0.5747(10)
3.60(7)	4.16(3)	2.10(13)	5.06(4)	5.98(0.08)	0.652(9 0)	7.22(0.4)	0.247(0.3)
3.56(8)	4.06(2)	1.95(4.5)	4.39(9)	5.89(0.17)	0.42(7)	7.05(0.6)	0.2024(9)
3.30(5)	3.88(4.4)	1.72(5)	4.18(7)	5.644(0.5)	**Fe**	6.839(9)	**Pb**
3.10(9.5)	3.80(1.3)	1.60(3)	3.92(6)	5.460(0.4)	10.16(0.06)	6.58(2)	7.380(1)
2.84(7)	3.62(2.5)	1.07(20)	3.67(9)	4.957(3.4)	9.298(2)	6.34(1)	6.734(0.077)
2.68(8.5)	3.46(1.5)	0.93(8)	3.55(2)	4.871(5.0)	8.872(0.3)	6.10(1.3)	**Bi**
2.52(21)	3.29(2)	0.51(28)	3.40(4)	4.706(1.3)	8.345(0.6)	5.99(0.4)	4.170(100)
2.41(10.5)	3.02(10)	0.43(70)	3.15(1.5)	4.38(0.3)	7.639(29)	5.82(3)	U^{238}
2.21(7.5)	2.96(8)	**S**	3.05(3)	4.22(0.3)	7.285(3)	5.70(0.6)	4.062(7)
2.020(11.5)	2.84(4.6)	8.64(1.2)	2.75(4)	3.916(1.4)	6.369(0.3)	5.31(1.3)	3.662(2)
1.95(4)	2.61(5)	7.78(1.6)	2.60(4)	3.733(1.8)	6.015(6)	4.20(≥0.7)	3.576(2)
1.87(5.5)	2.28(5.1)	7.42(0.3)	2.55(4)	3.55(0.7)	5.914(6)	4.05(≥1)	0.637(8)
1.66(7.5)	2.12(3)	7.19(0.25)	2.42(2)	3.460(1.1)	5.51(0.6)	3.67(≥1)	0.628(8)
1.35(6.5)	1.78*(100)	6.64(0.25)	2.37(3)	3.23(0.7)	4.968(0.6)	3.17(≥1)	0.611(2)
0.875(44)	0.97(10)	5.97(0.8)	2.30(3)	3.028(1.8)	4.81(1)	3.03(≥1)	0.589(6)
0.790(4.3)	**Si**	5.43(60)	2.06(9)	2.95(1.5)	4.44(1)	2.15(≥2)	0.577(8)
0.710(5)	10.601(0.2)	5.03(2.7)	2.02(7)	2.730(1.5)	4.21(2)	1.74(≥1)	0.552(10)
0.475(74)	8.468(2)	4.84(11)	1.95(4)	2.165(0.6)	3.86(0.7)	1.53(≥1)	0.540(9)

* Al^{28} beta-decay line. † V^{52} beta decay.

Neutron Self-Shielding

By P. F. ZWEIFEL, *University of Michigan, Ann Arbor, Michigan*

THE RATE OF NEUTRON CAPTURE in small, heavily absorbing samples is generally treated by considering the neutron balance outside the sample, and obtaining the absorption rate from the net neutron flow into the sample. This approach, the "self-shielding" approach, defines the self-shielding factor, f,

$$f = \bar{\phi}_s/\phi_\infty \qquad (1)$$

where $\bar{\phi}_s$ is the average flux inside the sample and ϕ_∞ is the (constant) flux which would be present at the sample position if the sample were absent. A uniform isotropic neutron source is assumed present in the (infinite) medium surrounding the absorber. One then defines $\Sigma_{a,eff} = f\Sigma_a$ and uses $\Sigma_{a,eff}$ as a "homogenized" absorption cross section—i.e., the absorption rate is given by $\phi_\infty\Sigma_{a,eff}$ (*1, 2*).

Monoenergetic Neutrons

For monoenergetic neutrons (or thermal neutrons with a known average energy) the simplest calculations of f assume that C_s, the ratio of scattering to absorption in the sample, as well as C_m, the corresponding quantity within the surrounding moderator, is equal to zero. If the sample is small and/or its transmission probability is small, the no-scattering assumption is justified (except possibly in the case of an infinite slab absorber which may be treated in another fashion). For a slab *internal* scattering may not be negligible. To correct for scattering within a slab, the following formula may be used (*3*):

$$f = \frac{f_0}{1 - C_s(1 - f_0)} \qquad (2)$$

where f_0 is the self-shielding factor calculated with C_s set equal to zero.

In Fig. 1, f is plotted, following Dwork (*4*), as a function of $\tau = \frac{2}{3} V \Sigma_{tot}$ (V = volume, S = surface area of sample) for slabs, solid spheres, and infinite cylinders. In Fig. 2, f is plotted for hollow spheres as calculated by Bartels (*5*), while Fig. 3 (*4*) gives the ratio of f for hollow cylinders to f for solid cylinders. Useful approximations for solid bodies are

$$f = \frac{1}{2\tau} \qquad \tau \geq 2 \qquad (3a)$$

while for small τ,

$$f_{slab} \approx 1 - \tfrac{3}{4}\tau(1 - \tfrac{2}{3}\ln\gamma) \qquad \ln\gamma = 0.577 \qquad (3b)$$

$$f_{sphere} \approx 1 - \tfrac{9}{8}\tau \qquad (3c)$$

$$f_{cyl} \approx 1 - \tfrac{4}{3}\tau \qquad (3d)$$

Figure 4 gives f calculated by Francis et al. (*6*) for absorbing slabs imbedded in a scattering and absorbing moderator. To correct the results of Fig. 4 for scattering inside the absorber, Eq. 2 may be used.

Since the results presented here refer to one-velocity neutrons only, in obtaining an average thermal cross section one must average over all energy, i.e.,

$$\Sigma_{a,eff} = \int \phi(E) f(E) \Sigma_a(E)\, dE \qquad (4)$$

where $f(E)$ is the (normalized) thermal spectrum of neutrons striking the absorber.

Resonance-Energy Neutrons

For resonance-energy neutrons incident on a resonance absorber, one must choose between the NR and NRIA approximations (*7*). In the NR (narrow resonance) case, we assume that all scattering collisions within the absorber degrade the neutron below the resonance energy, while in the NRIA (narrow resonance, infinitely heavy absorber) case it is assumed that collisions with absorber atoms do *not* change the neutron energy, and thus leave the neutron within the resonance. For the latter, the absorber scattering cross section is set equal to zero. In both cases, however, if there is a mixture of absorber plus light element in the sample (as for a UO_2 fuel element, for example) the scattering of the light element is taken into account. In addition, the effect of thermal motion of the absorber atoms (Doppler effect) must be taken

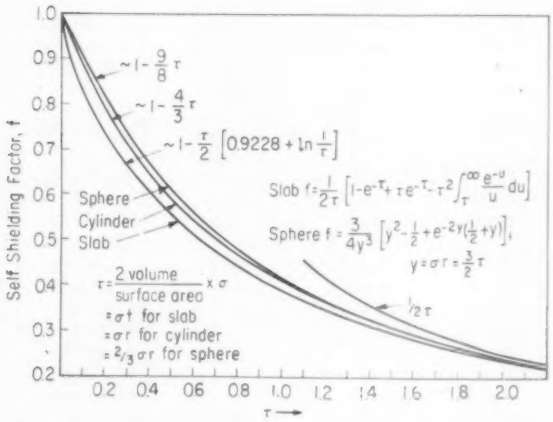

FIG. 1. f for slabs, solid spheres and infinite solid cylinders

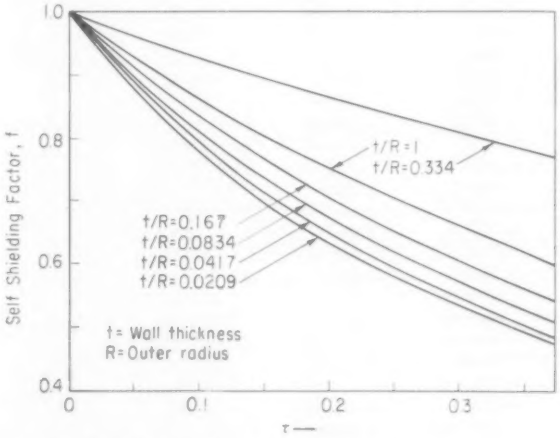

FIG. 2. Self-shielding factor f for hollow spheres

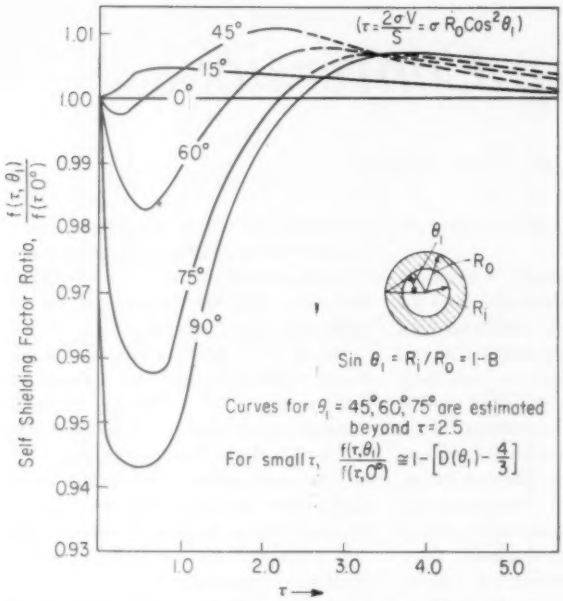

FIG. 3. *f* for hollow cylinders relative to solid cylinders

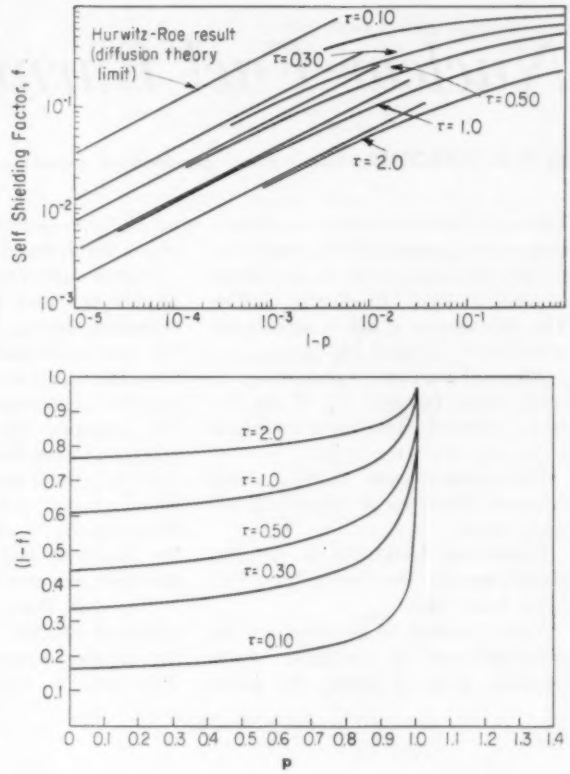

FIG. 4. *f* or 1 − *f* for absorbing slab in scattering and absorbing moderator versus *p*, the ratio of scattering to total macroscopic cross section in the moderator

into account, since this motion broadens the resonance and hence increases the absorption.

The early work by Roe (*8*) corresponds to the NRIA approximation assuming *no* admixture of light element with the absorber.* The later work of Adler, Hinman, and Nordheim (*7*) extends Roe's work to the NR case as well as the NRIA case including light-element scattering inside the absorber. Even more recent work by Chernick and Vernon (*9*) uses simple approximations similar to Eqs. 3 for escape probabilities. Adler (*7, 10*) gives extensive tables and formulas for the computing resonance integrals.

Under the approximations to the escape probability (Wigner rational approximation) made by Chernick and Vernon, the resonance integral of a body of arbitrary shape is related to that of a simpler shape by a rule which may be paraphrased as follows: "Two bodies with the same value of $s_0' = \sigma_p + S_0/4N_0V_0$ have the same effective resonance integral." Here σ_p is the potential scattering cross section per absorber atom *in the lump*—$\sigma_p = (\Sigma_p^0 + \Sigma_p')/N_0$, where Σ_p' is the macroscopic potential scattering cross section of whatever material may be in the lump in addition to the absorber, and Σ_p^0 is the macroscopic potential scattering cross section of the absorber. S_0 and V_0 are the surface area and volume of the lump, while N_0 is the number density of absorber atoms. (Note that in the NRIA case, $\Sigma_p^0 \rightarrow 0$.) This equivalence rule allows one to use tabulated resonance integrals for simple shapes such as cylinders in calculating resonance integrals for arbitrary geometry.

Bell (*11*) has introduced a simple rule for calculating I_{eff} of a lump in a lattice: "An absorbing element in a lattice has the same I_{eff} as an isolated lump when the lattice element has a value of τ_0' equal to the s_0' of the lump." Here,

$$\tau_0' = \sigma_p + \frac{S_0\Sigma_1}{4N_0V_0\Sigma_1 + N_0S_0V_0/V_1}$$

where Σ_1 is the macroscopic scattering cross section of the moderator outside the lump and V_1 the volume of moderator associated with each lump. Sometimes one writes $\tau_0^{1/2}\sigma_p + S_{eff}/4N_0V_0$, where $S_{eff} = DS_0$. D, the Daneoff correction factor, in Bell's approximation is

$$D \simeq \Sigma_1/(\Sigma_1 + S_0/4V_1)$$

Finally, both the isolated lump and lattice may be related to the homogeneous resonance integral by making $(\Sigma_m + \Sigma_p^0)/N_0$ in the homogeneous case equal to s_0' or τ_0'. Here Σ_m is the scattering cross section of everything other than absorber, so that $(\Sigma_m + \Sigma_p^0)/N_0$ is the total potential cross section per fuel atom. Again, note that in the NRIA case Σ_p^0 must be neglected.

These rules, while only approximate, are quite valuable for rough calculations.

* Roe's calculations do not include the volume term, which is small for NRIA resonances.

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Nuclear-Fuel Burnup Conversions

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THERE IS CONSIDERABLE CONFUSION, even among people actively engaged in fuel-development work, on the choice of units in which to express burnup. The following is a list of units commonly used for three fuel types:

Alloys of uranium (or plutonium): % total atoms fissioned, % U (or Pu) atoms fissioned, Mwd/ton of contained U (or Pu), Mwd/ton of fuel.

Bulk ceramic fuels: % metal atoms fissioned, Mwd/ton of ceramic, Mwd/ton of metal.

Dispersion fuels: % U (or Pu) atoms fissioned, Mwd/ton of U (or Pu), Mwd/ton of fuel.

Units common to all three are fissions/cm³ and % fissionable atoms fissioned. And, of course, the tonne (metric ton equal to 2,200 lb) often replaces the British ton.

Within a given company, a single set of units is almost universally used for expressing burnup in a particular fuel. The system adopted probably depends upon the background of the individual who first has occasion to make a choice. For example, the metallurgist will probably choose fissions/cm³; the physicist, % of total atoms; the economist, Mwd per unit weight; the accountability expert, % of fissionable atoms; the American and/or engineer, tons; the European and/or scientist, tonnes.

The High Temperature Fuels Committee of the AEC has recommended the universal adoption of fissions/cm³. This unit is applicable to all fuel types and provides a meaningful index of the relative ability of fuels to withstand radiation effects. It is doubtful, however, that the other systems of units will soon disappear.

Given here are burnup-conversion nomographs for eight fuel systems of interest to APDA. The use of these nomographs is simple. A straight line is drawn through the appropriate point on the composition (left-hand) scale and a point on one of the other scales representing a known burnup. The intersection of this line with any of the vertical burnup-scale lines denotes the equivalent burnup in that system of units. Burnup units not included on the vertical scales can be calculated with the formulas provided.

Bulk Ceramic Fuels

Constants

Theoretical density of UO_2 = 10.96 gm/cm³

Theoretical density of PuO_2 = 11.46 gm/cm³

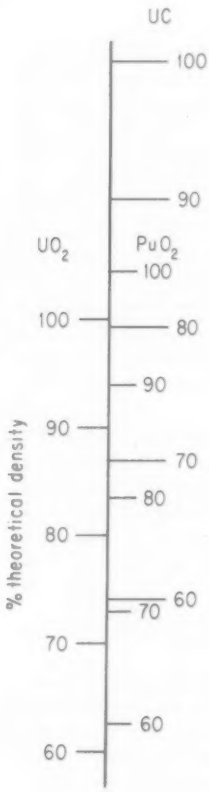
Theoretical density of UC = 13.6 gm/cm³

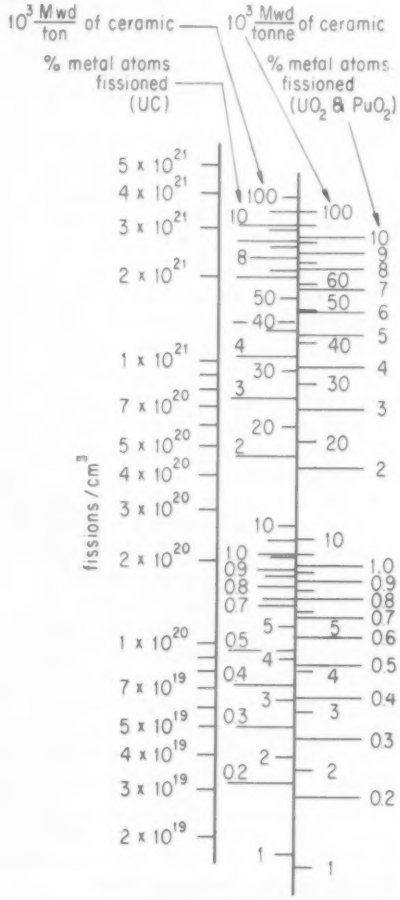
Mev/fission = 200

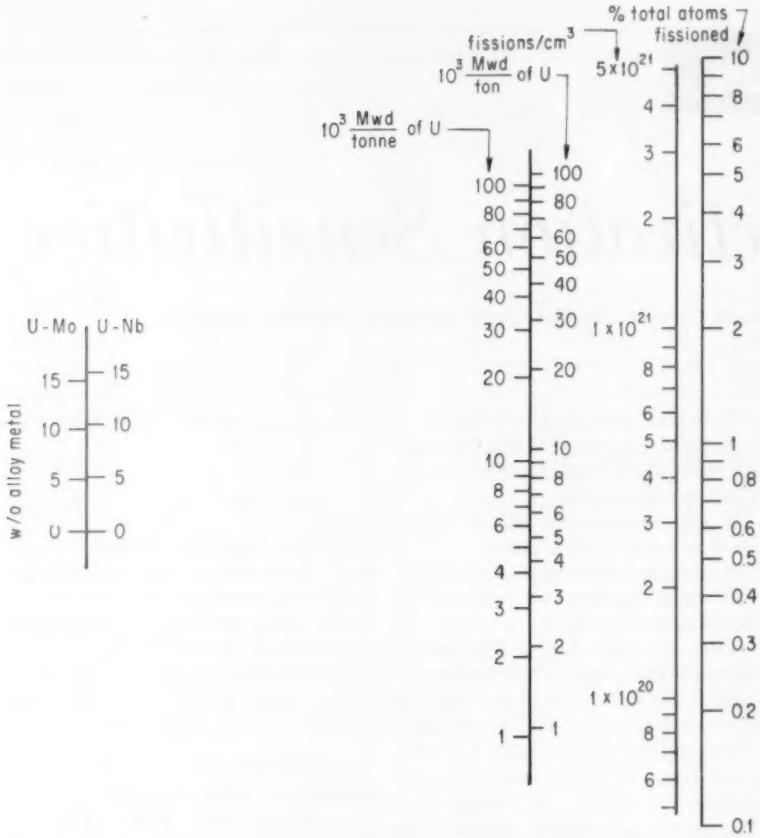
Additional Conversions

$$\%\ \text{fissionable atoms fissioned} = \frac{\%\ \text{metal atoms fissioned}}{\text{enrichment fraction}}$$

$$\frac{\text{Mwd}}{\text{tonne}}\,\text{U} = \frac{\text{Mwd}}{\text{tonne}}\,\text{ceramic} \times \frac{\text{molecular wt. ceramic}}{\text{atomic wt. U}}$$







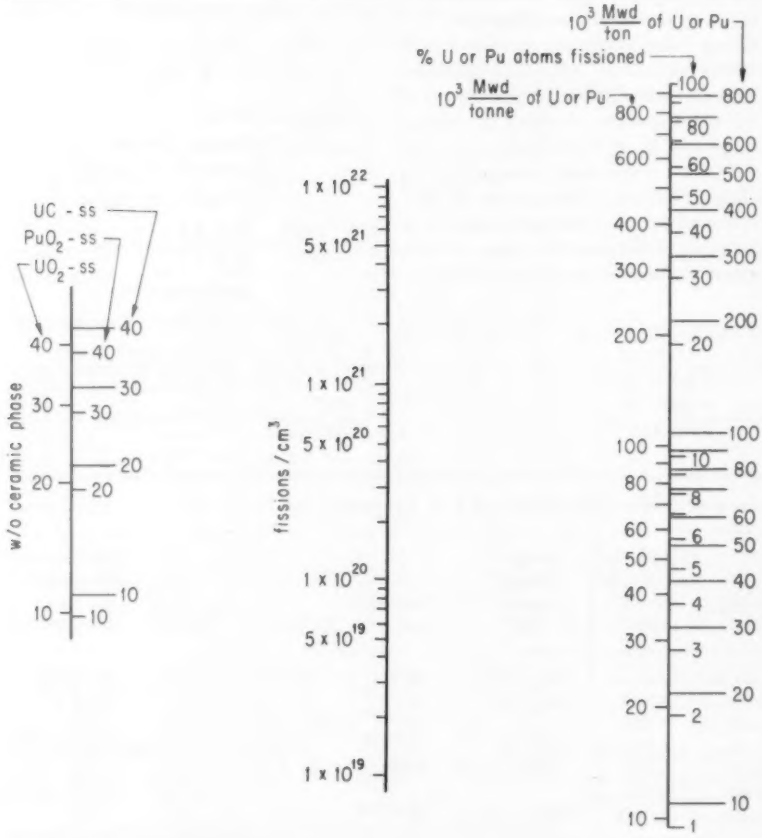
U-Mo and U-Nb Alloys

Additional Conversions

$$\frac{\text{Mwd}}{\text{tonne}}\ \text{fuel} = \frac{\text{Mwd}}{\text{tonne}}\ \text{U} \times \frac{100 - \text{w/o alloy metal}}{100}$$

$$\%\ \text{U atoms fissioned} = \%\ \text{total atoms fissioned} \times \frac{\dfrac{\text{w/o U}}{\text{atomic wt. U}} + \dfrac{\text{w/o alloy metal}}{\text{atomic wt. alloy metal}}}{\dfrac{\text{w/o U}}{\text{atomic wt. U}}}$$

$$\%\ \text{fissionable atoms fissioned} = \frac{\%\ \text{U atoms fissioned}}{\text{enrichment fraction}}$$



Dispersion Fuels

Constants

Theoretical density of UO_2 = 10.96 gm/cm³

Theoretical density of PuO_2 = 11.46 gm/cm³

Theoretical density of UC = 13.6 gm/cm³

Ceramic phase = 95% theoretical density

Stainless-steel density = 7.66 gm/cm³

Mev/fission = 200

Additional Conversions

$$\frac{\text{Mwd}}{\text{tonne}}\ \text{cermaic} = \frac{\text{Mwd}}{\text{tonne}}\ \text{U} \times \frac{\text{atomic wt. U}}{\text{molecular wt. ceramic}}$$

$$\frac{\text{Mwd}}{\text{tonne}}\ \text{fuel} = \frac{\text{Mwd}}{\text{tonne}}\ \text{U} \times \frac{\dfrac{\text{atomic wt. U}}{\text{molecular wt. ceramic}}\ \text{w/o ceramic}}{100}$$

$$\%\ \text{fissionable atoms fissioned} = \frac{\%\ \text{U atoms fissioned}}{\text{enrichment fraction}}$$

Neutron-Activation Sensitivities

By OSWALD U. ANDERS, *The Dow Chemical Company, Radiochemistry Laboratory, Midland, Michigan*

SEVERAL RECENT articles on the use of short-irradiation neutron-activation analysis (*1-4*) point to increasing interest in this field, which finds a ready application in industrial laboratories. There has been a lack, however, of data for estimating sensitivities attainable. The sensitivities given here for 70 elements were determined at this laboratory.

Our neutron source is a 2-Mev Van de Graaff accelerator (High Voltage Engineering Corp., type AH). Neutrons are produced by the $Be^9(d,n)B^{10}$ reaction with the 2-Mev analyzed deuteron beam impinging on a water-cooled beryllium target. The neutrons are moderated by a 2-ft paraffin cube in which the target is centered.

Irradiation samples are made up of the elements or their oxides or carbonates (spectroscopically pure whenever possible) packaged in 13-mm Lusteroid tubes (Fig. 1). Gold-foil disks (¼-in. diameter, 15 mg) serve to measure the total neutron flux at the sample position; no effort is made to separate the thermal flux from the fast component. The samples are inserted in the paraffin cube by a polyethylene slide positioning the sample ~¾ in. in front of the beryllium target, the position of maximum thermal flux (*5*).

The irradiation and counting schedule is as follows:

1. Sample irradiation is 5 min.
2. Sample is removed from flux, gold foil removed and sample placed in scintillation counter (Fig. 1).
3. One minute after end of irradiation, a 1-min count is taken.
4. Gold foil is counted after sample with same counter; Au^{198} photopeak serves as flux monitor.

Data are taken with a 200-channel analyzer (Radiation Instrument Development Laboratory model 34), reduced to 100 points by an LGP-30 computer and simultaneously corrected for background and deadtime losses and normalized to 1×10^8 n/cm²/sec neutron flux and 1-gm sample weight. No corrections were made for self-shadowing (a method for calculating this effect is now being evaluated and the results will be published). The data presented here were obtained from these corrected 100-point spectra, covering the energy range 0–3 Mev, by summing the peak channels for the most prominent peaks of each element. The number of channels used for summing under a particular peak varied over the range of energies according to the schedule below.

γ-ray energy (Mev)	No. of channels
0–0.12	3
0.12–0.30	4
0.30–0.80	5
0.80–1.3	6
1.3–1.8	7
1.8–2.3	8
2.3–2.8	9

Relative errors incurred in the photopeak counts are of the order of 3%. Absolute errors are of the order of 10% due to the uncertainty in the absolute calibration of the neutron flux.

The average counting geometry, 28.6%, was obtained in the following way (refer to the illustration):

½ sample thickness = 0.7 cm
polystyrene trough thickness = 1.1 cm
d = distance from sample center to crystal face = 1.8 cm
l = ½ crystal-face diameter = 3.8 cm

$$R = \sqrt{d^2 + l^2} = 4.2 \text{ cm}$$
$$h = R - d = 2.4$$

counting geometry

$$= \frac{\text{area of spherical segment subtended by crystal}}{\text{area of sphere of radius } R}$$

$$= \frac{2\pi Rh}{4\pi R^2} = \frac{2 \times 2.4}{4 \times 4.2} = 0.286$$

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Neutron-Activation Sensitivities Attainable with 5-Min Irradiations at 1×10^8 n/cm²/sec

Sample,[a] sample weight (gm)	*Product isotope*	*Half-life*	*γ-energy (Mev)*	*Counts in photopeak per gm element[b]*
BeO			no photopeak	
LiF, 1.30	O^{19}	29.4 s	0.19	4,500
			1.36	529
Na_2CO_3, 0.58	Na^{24}	14.97 h	1.37	8,250
			2.76	3,844
Mg, 1.00	Mg^{27}	9.5 m	0.84	4,979
			1.02	1,648
Al, 0.094	Al^{28}	2.3 m	1.78	346×10^3
Si, 1.00	Al^{28}	2.3 m	1.78	4,062
	Si^{31}	<2.6 h	1.26	64[c]
S, 2.01	S^{37}	5.04 m	no photopeak	
NH_4Cl, 1.50	Cl^{38}	37.3 m	1.64	7,176
			2.15	4,947
K_2CO_3, 1.41	K^{42}	12.5 h	1.53	166

Neutron-Activation Sensitivities Attainable with 5-Min Irradiations at 1×10^8 n/cm²/sec (Continued)

Sample,[a] sample weight (gm)	*Product isotope*	*Half-life*	*γ-energy (Mev)*	*Counts in photopeak per gm element[b]*
$CaCO_3$, 2.57	Ca^{49}	8.8 m	no photopeak	
Sc_2O_3, 0.052	Sc^{46m}	19.5 s	0.14	2.87×10^6
TiO_2, 0.653	Ti^{51}	5.79 m	0.32	23.6×10^3
V_2O_5, 0.114	V^{52}	3.76 m	1.47	3.89×10^6
Cr_2O_3, 0.575	V^{52}	3.76 m	1.47	572
Mn_3O_4, 0.157	Mn^{56}	2.57 h	0.85	735×10^3
Fe_2O_3, 0.798	Mn^{56}	2.57 h	0.85	73
CO_3O_4, 0.127	Co^{60m}	10.47 m	0.06	796×10^3
			1.33	18.1×10^3
NiO, 2.44	Ni^{65}	2.56 h	1.12	132
			1.48	124
Cu, 0.440	Cu^{66}	5.10 m	1.04	36.6×10^3
Zn, 1.06	Zn^{69m+71}	13.8 h + 2.2 m	0.44 + 0.51	398[d]
Ga, 0.60	Ga^{72}	14.3 h	0.84	19.1×10^3
			2.50	1,613
Ge, 0.603	Ge^{75m}	48 s	0.13	50.8×10^3
	Ge^{75}	82 m	0.26	5,107[e]
As, 0.280	As^{76}	24.6 h	0.56	12.4×10^3
Se, 1.04	Se^{77m}	17.5 s	0.16	197×10^3
NH_4Br, 1.23	Br^{80}	17.6 m	0.54	142×10^3
			0.64	148×10^3
Rb_2SO_4, 1.56	Rb^{86m}	1.02 m	0.56	36.0×10^3
$SrCO_3$, 0.447	Sr^{87m}	2.80 h	0.39	4,971
Y_2O_3, 0.91	Y^{89m}	16.1 s	0.91	6,584
ZrO_2, 3.58	Zr^{97}	17.0 h	0.75	38
Nb_2O_5, 0.66	Nb^{94m}	6.6 m	0.87	2,783
MoO_3, 0.68	Mo^{101}	14.6 m	0.19	11.8×10^3
			2.04	506
RuO_2, 0.296	Ru^{105}	4.5 h	0.73	1,643
Rh, 0.0135	Rh^{104m}	4.4 s	0.05	12.0×10^6
	Rh^{104}	44 s	0.55	1.46×10^6
Pd, 0.73	Pd^{109m}	4.75 m	0.18	59.6×10^3
Ag, 0.100	Ag^{110}	24.2 s	0.66	647×10^3
Cd, 0.404	Cd^{111m}	48.6 m	0.24	6,554
In_2O_3, 0.026	In^{116m}	54.0 m	1.27	6.61×10^6
			2.10	984×10^3
Sn, 5.01	Sn^{125m}	9.5 m	0.326	11.3×10^3
Sb_2O_4, 0.59	$Sb^{122(m)}$	3.5 m	0.06	42.1×10^3
			0.51, 0.66	17.1×10^3[d]
Te, 0.64	Te^{131}	25 m	0.15	26.3×10^3
			0.45	4,981
CHI_3, 0.43	I^{128}	25 m	0.46	251×10^3
Cs_2CO_3, 0.35	Cs^{134m}	3.2 h	0.13	24.1×10^3
$BaCO_3$, 0.59	Ba^{139}	84 m	0.16	17.6×10^3
	Ba^{137m}	2.6 m	0.66	15.2×10^3
La_2O_3, 0.58	La^{140}	40.2 h	0.50	10.9×10^3
			1.59	6,747
CeO_2, 1.03	Ce^{139m}	55 s	0.09	1,322
			0.51	298
Pr_6O_{11}, 0.214	Pr^{142}	19.2 h	1.57	588
Nd_2O_3, 0.283	$Nd^{151/149}$	15 m, 2 h	0.11	37.0×10^3
	Nd^{151}	15 m	1.15	2,678
Sm_2O_3, 0.182	$Sm^{153/155}$	47.1 h, 23.5 m	0.11	138×10^3
	Sm^{155}	23.5 m	0.24	7,397
Eu_2O_3, 0.123	Eu^{152m}	9.2 h	0.84	154×10^3
			0.96	116×10^3
Gd_2O_3, 0.30	Gd^{161}	3.6 m	0.05	44.9×10^3
			0.36	57.9×10^3
Tb_4O_7, 0.179	Tb^{160}	72.3 d	0.30	919
			0.88–0.97	623
Dy_2O_3, 0.143	Dy^{165m}	1.25 m	0.11	12.3×10^6
			0.52	1.08×10^6
Ho_2O_3, 0.213	Ho^{166}	27.3 h	0.08	54.4×10^3
			1.38	900
Er_2O_3, 1.01	Er^{171}	7.8 h	0.30	12.0×10^3
Tm_2O_3, 0.159	Tm^{170}	129 d	0.08	1,081
Yb_2O_3, 0.705	Yb^{177}	1.9 h	0.13	6,748
			0.40	2,469
			1.09	584
Lu_2O_3, 0.144	$Lu^{176m/177}$	3.71 h +	0.08	202×10^3
	Lu^{177}	6.75 d	0.20	19.4×10^3
HfO_2, 0.072	Hf^{179m}	19 s	0.22	1.51×10^6
Ta_2O_5, 0.500	Ta^{182m}	16.5 m	0.17	5,374
			1.22	381
WO_3, 0.420	W^{187}	24 h	0.07	23.8×10^3
			0.48	13.1×10^3
Re, 0.118	Re^{188m}	18.7 m	0.06	386×10^3
			0.47	4,654
Os, 0.87	Os^{190m}	9.5 m	0.34	945
Ir, 0.091	Ir^{192m}	1.42 m	0.06	140×10^3
	Ir^{194}	19.0 h	0.30	77.6×10^3
Pt, 0.925	Pt^{199}	31 m	0.19	8,808
			0.54	6,865
Au, 0.415	Au^{198}	2.7 d	0.41	97.8×10^3
Hg, 1.15	Hg^{199m}	42 m	0.16	880
			0.37	352
Tl, 0.522	Tl^{206}	4.2 m	0.06	2,633
PbO, 0.81			no photopeaks	
ThO_2, 0.53	Th^{233}?	22.1 m	0.07	150×10^3
			0.46	33.9×10^3
U_3O_8, 0.39	U^{239}?	23.5 m	0.1	1.72×10^6

Notes:

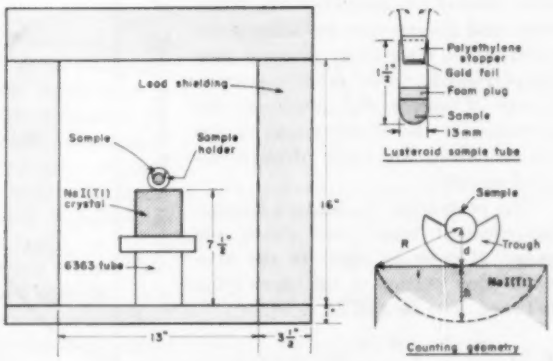
a. Boldfaced elements were those investigated in activation-analysis study.

b. Counts in photopeak of spectrum taken 1 min after end of 5-min irradiation for 1-min counting time.

c. Photopeak counting rate 17 min after irradiation.

d. Sum of 6 channels taken to cover the two overlapping peaks.

e. Photopeak counting rate 8 min after irradiation.



COUNTING ARRANGEMENT includes 7.6-cm-dia, 7.6-cm-high crystal, Du Mont type 6363 photomultiplier, polystyrene sample holder and beta absorber (trough has 1.1-cm wall thickness). Irradiation sample container and counting geometry are at right

Statistical Tests for Counting

By ARTHUR H. JAFFEY, *Argonne National Laboratory, Argonne, Illinois*

IF WE COUNT the same sample or identical ones many times, the results will be distributed around the true value according to a distribution function. From the function we can make deductions about the accuracy of the method, the consistency of the data and the probable error. Inversely, if we count a sample only once, a properly drawn distribution function, centered on the result, tells us the probability that the correct value for the count differs from experiment by a given amount.

Distribution Functions

If an experimenter measures the same quantity many times and records his results, he can plot a distribution function that will show how frequently he obtains each of his values for the quantity x or how many times his measurement falls into each of several different ranges. As the measurement is repeated indefinitely, the experimental distribution approaches an abstract one that we call $P(x)$.

For many experimental phenomena infinitely many repetitions of the measurement will produce the normal distribution of Fig. 1:

$$P(x)\,dx = \frac{1}{(2\pi)^{1/2}\sigma}\, e^{-(x-M)^2/2\sigma^2}\,dx \qquad (-\infty < x < \infty) \quad (1)$$

The important features, shown in Fig. 1, are the mean M, representing the true value of the quantity being measured, and the standard deviation σ, related to the error likely to occur in a measurement. For most measurements M and σ are unrelated; the accuracy of the measurement is not dependent on the value of the measured quantity.

The probability P_0 that an isolated experimental result lies within the range $M \pm u\sigma$ is equal to the area under that portion of the curve lying between $M - u\sigma$ and $M + u\sigma$:

$$P_0 = \frac{1}{(2\pi)^{1/2}\sigma}\int_{M-u\sigma}^{M+u\sigma} e^{-(x-M)^2/2\sigma^2}\,dx = \frac{1}{(2\pi)^{1/2}}\int_{-u}^{u} e^{-y^2/2}\,dy \quad (2)$$

$[y = (x - M)/\sigma]$. Figure 1 shows this area for $u = 1.645$, and Table 1 provides values of u for various probability levels. Fuller tables are widely available, for example in Ref. *1*.

In most nuclear measurements, for example in counting, results follow a Poisson distribution:

$$P(x) = e^{-M}M^x/x! \qquad (x = 0,1,2,3\ .\ .\ .\ ) \quad (3)$$

($M = ct$; c = true counting rate; t = counting time; x = number of counts recorded in time t.) The mean of the Poisson distribution is M, and the standard deviation is $M^{1/2}$; thus the two are related. For $M > 100$, the Poisson distribution can be represented by the normal; thus Eqs. 1 and 2 can be used for computation with $\sigma = M^{1/2}$.

Estimating Error

In practice, of course, a man who is counting a specimen does not know the mean M or σ; he has access only to a finite collection of values of x (called a "sample") derived from experiment. The sample is used to estimate the true quantity $c = M/t$ (Eq. 3) and the probable error in it. If one counts a number of identical samples for various counting periods, the best estimate for c is X/T, in which X is the sum of all measured counts and T is the sum of all counting intervals.

The error estimate is $\pm uX^{1/2}/T$. This expression provides "confidence limits" characterized by a "degree of confidence" P_0, which is a function of u (Table 1). For example, with $P_0 = 0.90$ (90% confidence limits) limits computed in this manner will contain the true value of c in 90% of a large number of measurements; they will not do so in 10% of the measurements. It is plain that P_0 increases with u; that is, increasing the span between limits ("confidence interval") increases the degree of confidence. The value chosen is arbitrary; 95% is a common choice.

This expression for the error is not generally applicable to data derived from noncounting experiments. If Eq. 1 applies to the experiments but M and σ are unrelated (as is true of most noncounting measurements like titrations, measurements of length, etc.), the confidence limits for M derived from

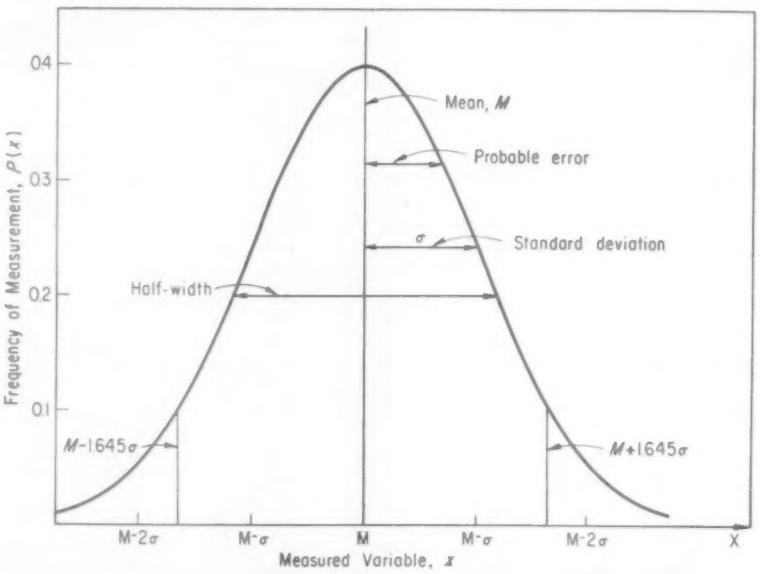


FIG. 1. NORMAL DISTRIBUTION represents random distribution about a mean

TABLE 1—Confidence Limits and Outlier Rejection with Normal Distribution

u	0.6745*	1.000	1.177†	1.645	1.960	2.576	2.807	3.291
P_0	0.50	0.683	0.761	0.90	0.95	0.99	0.995	0.999
u_0				1.282	1.645	2.326	2.576	3.090
α				0.10	0.05	0.01	0.005	0.001

* 0.6745σ = probable error.
† $2(1.177)\sigma = 2.355\sigma$ = half-width = full width at one-half the peak height.

TABLE 2—Error Propagation in Common Functions

Function	*Standard deviation*
1. $M_0 = M_1 \pm M_2$	$\sigma^2(x_0) = \sigma^2(x_1) + \sigma^2(x_2)$
2. $M_0 = \dfrac{M_1 M_2}{M_3}$	$\dfrac{\sigma^2(x_0)}{M_0^2} \cong \dfrac{\sigma^2(x_1)}{M_1^2} + \dfrac{\sigma^2(x_2)}{M_2^2} + \dfrac{\sigma^2(x_3)}{M_3^2}$
3. $M_0 = aM_1 + b$	$\sigma^2(x_0) = a^2\sigma^2(x_1)$
4. $M_0 = M_1^r$	$\dfrac{\sigma^2(x_0)}{M_0^2} \cong r^2 \dfrac{\sigma^2(x_1)}{M_1^2}$
5. $M_0 = e^{\lambda M_1}$	$\dfrac{\sigma^2(x_0)}{M_0^2} \cong \lambda^2\sigma^2(x_1)$
6. $M_0 = \log_e \lambda M_1$	$\sigma^2(x_0) \cong \dfrac{1}{\lambda^2} \dfrac{\sigma^2(x_1)}{M_1^2}$

n measurements are $\pm ts/n^{1/2}$ [$s^2 = \Sigma(x_i - x_{avg})^2/(n-1)$ and t is derived from the Student-Fisher t distribution discussed in all statistics textbooks].

Error Propagation

Suppose the desired quantity is not experimentally accessible but can be computed from a set of experimental measurements. For example, one usually computes the amount of gas in an ionization chamber from measurements of pressure and temperature. The evaluation of error in the computed quantity from errors in the measured quantities is called "propagation of errors."

The desired estimate of M_0 is the mean of a distribution $P(x_0)$; x_0 is not experimentally accessible; $x_0 = f(x_1, x_2, \ldots)$, and therefore $M_0 = f(M_1, M_2, \ldots)$. Each M_i is the mean of a distribution $P_i(x_i)$, and all x_i's are accessible to measurement.

Since the M_i's are subject to error, so is the estimate of M_0. It is necessary to compute the probable error before confidence limits can be determined. The standard deviation for M_0 is determined approximately from errors in the experimental quantities as follows:

$$\sigma^2(x_0) \approx \sum_i \frac{\partial M_0}{\partial M_i} \sigma^2(x_i) \qquad (4)$$

The expression applies if each $\sigma(x_i)/M_i$ is small ($< \sim 20\%$) and if all x_i's are statistically independent of one another (that is, variation in one does not cause variation in another). Some examples are given in Table 2.

A relation like No. 2 in Table 2 should not be used when numerator and denominator contain the same quantity (for example, $M_3 = M_1 + M_2$) since such a situation violates the requirement of independence.

After finding the standard deviation from Eq. 4 or the relations of Table 2, one can get u from Table 1 and compute confidence limits as $\pm u\sigma$.

Data Pooling

We have already pointed out that when measurements of counting rate are made on different samples or in different runs, the best estimate is got by summing all counts and dividing by the total time. This is an example of data pooling. Experiments are sometimes too complicated, however, to allow such simple pooling.

Suppose that the true value of the quantity measured is R and that each of k runs or samples gives a result r_i, each having its own standard deviation σ_i computed from Eq. 4 or Table 2. Then the method of least squares provides an estimate of R with minimum error. The estimate is

$$R_{avg} = \sum_{i=1}^{k} w_i r_i \Big/ \sum w_i \qquad (5)$$

$$w_i = A/\sigma_i^2$$

The w_i's are called "weights," and A is a constant arbitrarily chosen to make the values of the weights convenient for computation. (You can see that A cancels out and does not influence the result.) For data that come from noncounting experiments, weights are determined from the internal scatter of the data. (See Ref. 2.)

For confidence limits of $\pm u\sigma$, the error in R_{avg} of Eq. 5 is given by σ, and σ can be computed from the following equation:

$$\sigma^2(R_{avg}) = A \Big/ \sum_{i=1}^{k} w_i = 1 \Big/ \sum \frac{1}{\sigma_i^2} \qquad (6)$$

Reliability, Consistency

How does one know if one is justified in adding all counts and dividing by the sum of the intervals to find a counting rate? If counting rate shifts, if samples are not identical, if background changes, if counter efficiency varies, such data pooling is not justified. A chi-squared test can be used to check the consistency of counting data or, inversely, to check the reliability of a counter. For noncounting data a similar F test is appropriate.

To apply the chi-squared test to k direct counting results on the same or identical samples without background subtraction and with equal counting intervals, one forms the following sum:

$$\chi_0^2 = \sum_{i=1}^{k} \frac{(x_i - x_{avg})^2}{x_{avg}} \qquad (7)$$

$$x_{avg} = (1/k)\Sigma\, x_i = X/k$$

For the same kind of counts but unequal counting intervals t_i the sum is

$$\chi_0^2 = \sum_{i=1}^{k} \frac{(x_i - t_i X/T)^2}{t_i X/T} \qquad (8)$$

$$X = \Sigma x_i \qquad T = \Sigma t_i$$

For quantities r_i derived from direct counting results the sum is

$$\chi_0^2 = \sum_{i=1}^{k} \frac{(r_i - R_{avg})^2}{\sigma^2(r_i)} \qquad (9)$$

(R_{avg} is determined from Eq. 5 and σ^2 from Eq. 4 or Table 2).

The test consists in comparing the value of χ_0^2 with the distribution of such values that is to be expected for

many sets of k measurements, all of them consistent. This distribution is

$$P(\chi^2)\,d\chi^2 = C(\chi^2)^{\frac{\nu}{2}-1}\,e^{-\chi^2/2}\,d\chi^2 \quad (10)$$

$$C = \frac{1}{2^{\nu/2}\Gamma(\nu/2)}$$

ν = no. of degrees of freedom

This is a skewed distribution with its mean at $\chi^2 = \nu$ and its peak at $\chi^2 = \nu - 2$ (Fig. 2).

If all counting rates of Eqs. 7 and 8 or all values of r_i in Eq. 9 are consistent, then the sum χ_0^2 has the distribution of χ^2 in Eq. 10 with $\nu = k - 1$. Plainly it is possible for perfectly good data to give any positive value for χ_0^2. The test procedure is to select a range of χ^2 values and reject the experimental measurements as inconsistent if the experimental value of χ_0^2 falls outside this range. Two criteria are used in selecting the range of acceptability: (a) Use only the region in which $P(\chi^2)$ is large. One must not reject χ_0^2 values that perfectly good data will give frequently. Thus one accepts in a range near the mean ν. (b) Reject if χ_0^2 falls where it is likely to fall if counting rates are in fact unequal.

From Fig. 2 and Eq. 10 it is plain that Criterion a leads to rejection of both large and small values of χ_0^2. Criterion b, however, leads only to rejection of large values. Likely experimental sources of difficulty all tend to make χ_0^2 large. An unusually small χ_0^2 might occur from an inexpert fudging of data.

The upper bound of the acceptability region is at χ_b^2, defined by

$$\int_{\chi_b^2}^{\infty} P(\chi^2)\,d\chi^2 = \alpha \quad (11)$$

Here α is a probability selected to be equal to the fraction of good data one expects to reject in the long run and is called the "significance level." It is usually chosen as 0.10, 0.05 or 0.01. Figure 3 shows χ_b^2 as a function of ν for various values of α. Tables are also widely available, for example in Ref. *1*. Figure 2 shows that $\chi_b^2 = 18.3$ for $\nu = 10$ and $\alpha = 0.05$.

What to do with data that fail a chi-squared test remains a problem. The solution depends on the suspected nature of the large scatter and includes three important paths:

1. If a number of samples are involved, unusually large scatter may be caused by lack of uniformity in sample preparation. The variation can be

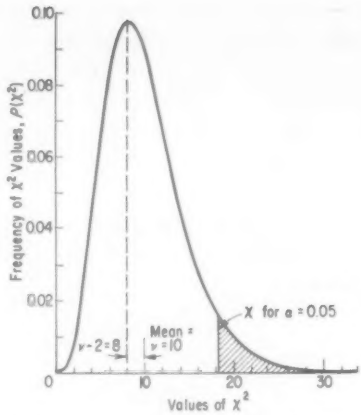


FIG. 2. CHI-SQUARED DISTRIBUTION

assumed to be random and follow a normal distribution; the mean is still a valid estimate of the measured quantity. But since σ is not related to the mean, the confidence interval must be determined by the method that uses the Student-Fisher t distribution.

2. A large χ_0^2 can result from one or two badly inconsistent measurements ("outliers"). Then one can apply a test for such outliers (we will discuss it later) to see whether their rejection is warranted. If it is, recomputation of the mean and χ_0^2 follows.

3. If disturbances occurring in several counting intervals cause χ_0^2 to be large, the rejection test for one or two outliers fails, and this suggests discard of the entire series.

Linear Equations

How accurately can we determine the constants b and c in the equation

$$y = b + cx \quad (12)$$

Let us suppose that x can be measured with negligible error, but measurements of y, indefinitely repeated at any x_i, are distributed about a mean. At each x_i

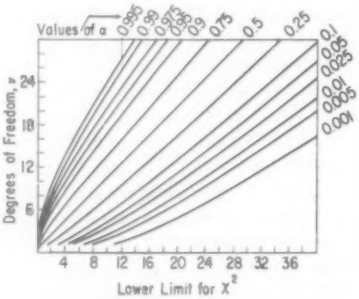


FIG. 3. RELATION among ν, χ and α

there is a unique, ideal Y_i, and the experimental quantity y_i has a standard deviation $\sigma(y_i)$, which may be different for each x_i. If there are k sets of x-y measurements, the best estimates of b and c are

$$C = \frac{\Sigma w_i x_i y_i - x_{avg} y_{avg} \Sigma w_i}{\Sigma w_i x_i^2 - x_{avg}^2\,\Sigma w_i} \quad (13)$$

$$B = y_{avg} - C x_{avg} \quad (14)$$

$$x_{avg} = \frac{\Sigma w_i x_i}{\Sigma w_i} \qquad x_{avg} = \frac{\Sigma w_i y_i}{\Sigma w_i}$$

The weights w_i are defined as they were for Eq. 5, and each sum (Σ) is from 1 to k.

With A chosen as in Eq. 5, errors in the estimates of b and c are given by

$$\sigma^2(C) = \frac{A}{\Sigma w_i x_i^2 - x_{avg}^2\,\Sigma w_i} \quad (15)$$

$$\sigma^2(B) = A\left(\frac{1}{\Sigma w_i} + \frac{x_{avg}^2}{\Sigma w_i x_i^2 - x_{avg}^2\,\Sigma w_i}\right) \quad (16)$$

Confidence limits for B and C are $\pm u\sigma(B)$ and $\pm u\sigma(A)$, respectively, in agreement with previous definitions.

Example: a decay curve. How accurately can we find the counting rate R_0 and the decay constant λ in the equation $R = R_0 e^{-\lambda t}$? First we make the equation linear by writing

$$y = \log_e R = \log_e R_0 - \lambda t \quad (17)$$

Thus in terms of Eqs. 12–14, we have $y = \log_e R$, $x = t$, $b = \log_e R_0$ and $c = -\lambda$.

During the decay z_i counts are measured in the interval Δt_i at time t_i, the measured counting rate being r_i and the transform $y_i = \log_e r_i$. Because of the transformation that made the equation linear, the weight of r_i must also be transformed with Item 6 in Table 2. Thus $\sigma^2(r_i) = z_i/(\Delta t_i)^2 = r_i/\Delta t_i$; $\sigma^2(y_i) \approx \sigma^2(r_i)/r_i^2 = 1/(r_i\Delta t_i) = 1/z_i$. From this $w_i = z_i$ = total number of counts at t_i ($A = 1$). (We assume that $\Delta t_i < 0.693/\lambda$—the counting period is smaller than a half-life—and take $x_i = t_i + \Delta t_i/2$.)

$\log_e R_0$ and λ are estimated with Eqs. 13 and 14, errors with Eqs. 15 and 16 and confidence limits as $\pm u\sigma$.

So far we have assumed that background at each point is negligible. If it is not, the analysis is the same, but weights are changed. If background rate R_b is constant, the measurements taken at various times can be pooled, and error in background is negligible.

Then $w_i = (z_i - R_b\Delta t_i)^2/z_i$. If the background changes and needs re-evaluation at each counting interval, sample and background are counted for interval Δt_{i1}, giving z_{i1} counts, and background alone for Δt_{i2}, giving z_{i2} counts. Net counting rate is

$$R_i = \frac{z_{i1}}{\Delta t_{i1}} - \frac{z_{i2}}{\Delta t_{i2}} \tag{18}$$

and weights are

$$w_i = \frac{(z_{i1} - z_{i2}\rho_t)^2}{z_{i1} + z_{i2}\rho_t^2} \tag{19}$$

$$\rho_t = \Delta t_{i1}/\Delta t_{i2} \tag{20}$$

With zero background $R_b = z_{i2} = 0$, and $w_i = z_i$ as before.

Counters and Background

Often the problem is to choose, adjust and use a detection system to get counts of maximum accuracy in the presence of a significant background. What then? Let the experimental estimate of true counting rate S be $s = x_c/t_c - x_b/t_b$ (x's are numbers of counts; t's are counting intervals; c refers to sample plus background; b to background alone). Error is estimated as $\sigma^2(s) = x_c/t_c^2 + x_b/t_b^2$ with confidence limits, as usual, of $\pm u\sigma(s)$.

When counting rates are low and particularly when S is less than background rate B, one should consider in detail the choice of t_c and t_b as well as the choice of a counter type that has suitable sensitivity and response to background. If C is the true counting rate of sample plus background, the fractional error E in measuring S is given by

$$E^2 = \frac{\sigma^2(s)}{s^2} = \frac{C/t_c + B/t_b}{(C - B)^2} = \frac{r/t_c + 1/t_b}{B(r-1)^2} \tag{21}$$

$$r = C/B$$

To use a counter efficiently one must either (a) choose t_c/T for a fixed total time $T = t_c + t_b$ so as to reduce E to a minimum or (b) choose t_c/T for a fixed E to reduce T to a minimum. Both criteria give the same results. Thus for a particular set of sample and background rates

$$\frac{t_c}{t_b} = r^{1/2} = \left(\frac{C}{B}\right)^{1/2} \tag{22}$$

$$\frac{t_c}{T} = \frac{r^{1/2}}{1 + r^{1/2}} \tag{23}$$

TABLE 3—Factor U* for Rejection Criterion

n \ P_1	0.10	0.05	0.01	0.005
3	1.50	1.74	2.22	2.40
4	1.70	1.94	2.43	2.62
5	1.84	2.08	2.57	2.76
6	1.94	2.18	2.68	2.87
7	2.02	2.27	2.76	2.95
8	2.09	2.33	2.83	3.02
9	2.15	2.39	2.88	3.07
10	2.20	2.44	2.93	3.12
12	2.29	2.52	3.01	3.20
14	2.35	2.59	3.07	3.26
16	2.41	2.65	3.12	3.31
18	2.46	2.69	3.17	3.36
20	2.51	2.73	3.21	3.39
22	2.54	2.77	3.24	3.42
24	2.57	2.80	3.27	3.45
26	2.61	2.84	3.30	3.49
28	2.64	2.86	3.32	3.51
30	2.67	2.89	3.35	3.53

* $U = [(n-1)/n]^{1/2}u_0$.

$$E^2 = Q/T \quad \text{or} \quad T = Q/E^2 \tag{24}$$

$$Q = \frac{1}{B(r^{1/2} - 1)^2} = \frac{1}{(C^{1/2} - B^{1/2})^2} = \frac{(r^{1/2} + 1)^2}{B(r-1)^2} = \frac{(r^{1/2} + 1)^2}{S^2/B} \tag{25}$$

If the sample rate is much smaller than the background rate ($S \ll B$),

$$1/Q \approx S^2/4B = M^2 \tag{26}$$

If the sample rate is much greater than the background rate ($S \gg B$)

$$1/Q \approx S \tag{27}$$

Example. $C = 72$ cpm; $B = 50$ cpm; thus $r = 1.44$. Then $t_c/t_b = 1.2$; $t_c/T = 1.2/2.2 = 0.55$. If T is fixed at 100 min, $E^2 = 1/200$; $E = 0.071$. That is, with optimal time division minimal possible standard deviation is 7.1%. If the requirement is that the standard deviation be 3%, $E = 0.03$ and $T = 556$ min.

From Eq. 24 it is evident that the condition for minimal E or minimal T is that Q be a minimum. For particular sample and background rates one can use the minimal-Q criterion to choose the best among several counters or among several operating conditions for the same counter:

(a) If the ratio of counting efficiencies for sample and background is a constant as sensitivity is changed, it follows from Eq. 25 that $Q_1/Q_2 = S_2/S_1$. Hence $Q_2 > Q_1$ if $S_2 < S_1$; it pays to increase the efficiency as much as possible.

(b) If sample and background efficiencies do not remain in the same ratio and if $S \ll B$, then from Eq. 26 it is evident that Counter 2 (or Condition 2) is superior to Counter 1 if $M_1 > M_2$. M is, in fact, often used as the figure of merit of a counter. This is true in the previous Condition a but is not true, for example, if $S \gg B$. Under this condition background is unimportant, and only the ratio S_2/S_1 determines whether Counter 2 is superior to Counter 1.

(c) If sample and background efficiencies do not remain in the same ratio, both S^2/B and r depend on the counter. Comparing two counters in which sample efficiency is greater in the second, we have

$$\frac{Q_2}{Q_1} = \frac{(r_2^{1/2} + 1)^2}{(r_1^{1/2} + 1)^2}\frac{M_1^2}{M_2^2} = \frac{(r_2^{1/2} + 1)^2}{(r_1^{1/2} + 1)^2}\frac{b_{21}}{s_{21}^2}$$

$$= \frac{b_{21}}{s_{21}^2}\left[\frac{\left(\frac{s_{21}}{b_{21}}\frac{S_1}{B_1} + 1\right)^{1/2} + 1}{\left(\frac{S_1}{B_1} + 1\right)^{1/2} + 1}\right]^2$$

$$= \left[\frac{\left(\frac{1}{s_{21}}\frac{S_1}{B_1} + \frac{b_{21}}{s_{21}^2}\right)^{1/2} + \frac{b_{21}^{1/2}}{s_{21}}}{\left(\frac{S_1}{B_1} + 1\right)^{1/2} + 1}\right]^2 \tag{28}$$

($b_{21} = B_2/B_1$ and $s_{21} = S_2/S_1 > 1$). Situation a is a special case in which $b_{21} = s_{21}$, and Situation b is a special case with $S_1/B_1 \ll 1$.

If $b_{21} < s_{21}$, or if $b_{21} > s_{21}$ but $b_{21} < s_{21}^2$, it is evident that $Q_2/Q_1 < 1$, and the second counter is more efficient. In these cases M is a suitable figure of merit. On the other hand if $b_{21} > s_{21}^2$, then $Q_2/Q_1 > 1$ for small S_1/B_1 but $Q_2/Q_1 < 1$ for large S_1/B_1. Then small sensitivity (Counter 1) is desirable for weak samples, and large sensitivity for strong samples. This last result is also evident from the previously mentioned fact that for $S \gg B$, only s_{21} is important.

Thus, in the region where background is important, $M = S/2B^{1/2}$ is a suitable figure of merit, rather than the intuitively appealing S/B. In this region improvement occurs if the counter efficiency is decreased in such a way that the background reduction factor exceeds the square of the sample reduction factor. On the other hand

improvement occurs if counter efficiency is increased in such a way that the background-increase factor is less than the square of the sample-increase factor, even when the background counting efficiency increases faster than the sample counting efficiency.

Further details and curves are available in Refs. *3–5*.

Outlier Rejection

In sequences of counting measurements, it is not unusual to find that results appear satisfactorily close together except for one or two outlying observations; these appear, at least at first glance, to be mistakes or measurements subject to unusual conditions, and perhaps they should be thrown away (while one keeps the remainder). If some recognized untoward event has occurred during counting, the data should be discarded but not because of the outlying nature of the result.

Conservatism in rejection of moderate outliers is strongly suggested for three reasons: (a) Apparent patterns in sequences of random data are often startling. In the long run, averaging only bunched results gives averages that deviate more from true values than do means of all values. (b) As the number of measurements increases, the probability of an outlier increases. (c) In a large group of measurements omission of the outlier has little effect on the average although it makes the data look better by decreasing scatter.

It may be reasonable to assume that a far outlying observation is a maverick, not a true member of the distribution, and hence to be discarded. Generally in counting experiments, one expects mavericks to be caused by disturbances external to the nuclear process (amplifier noise, electrical line noise, etc.), and hence an outlier is expected to be too large. One should be conservative and avoid the criterion that a small probability of occurrence invites discard. For example, if the limiting value is chosen so that there is only a 1% chance of having a measurement greater, there is a 60% probability that at least one good measurement in 100 will appear to be too great. This is the defect of the once common Chauvenet test; it discards good observations in ~40% of the situations to which it is applied. More conservatism is warranted; we ask that the fraction P_1 of situations in which good but outlying data are discarded be 0.05 or 0.01. This defines the lower bound x_0 for values of x that are to be treated as outliers, and x_0 is simply computed.

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γ-Ray Calibration Energies

By JERRY B. MARION,* *University of Maryland, College Park, Maryland*

THE GAMMA RAYS most commonly used for energy calibration in γ-ray spectroscopy are given here. The requirements on such γ-ray sources are: (a) Their γ-ray energies must be known with sufficient precision for the purpose at hand. (b) The number and intensity of γ-rays in the decay scheme must be such that the desired γ-ray is relatively easy to identify. (c) The half-life of the nuclide must not be inconveniently short.

Clearly, different sources will meet these requirements for different purposes.

The energies listed here are the "best values" taken from references *1–4*. In the case of complex decays, only the most intense γ-rays are given. The uncertainties refer to the last digit(s) of the value given.

The use of daughter X-rays from these sources for calibrating is complicated by the wide variation in resolution of the various types of instruments in use. In certain cases, it will be necessary to know the energies of all of the several X-ray lines; for such information the reader is referred to Ref. *5*.

* On leave, 1960–61, at Convair, Physics Section, San Diego, Calif.

Nuclide	*γ-ray energy (Mev)*†	*Half-life*	*Ref.*	*Nuclide*	*γ-ray energy (Mev)*†	*Half-life*	*Ref.*
Am^{241}	$0.05958^{\pm 5}$	458y	*1*		$0.892^{\pm 3}$		
Co^{57}	$0.12198^{\pm 4}$	268d	*1*	Na^{22}	$1.2736^{\pm 16}$ *	2.58y	*2*
Ce^{141}	$0.1455^{\pm 4}$	32.51d	*1*	Co^{60}	$1.3325^{\pm 3}$	5.27y	*2*
In^{114m}	$0.1903^{\pm 3}$	50.0d	*1*		$1.1727^{\pm 4}$		
Hg^{203}	$0.27912^{\pm 8}$	46.9d	*1*	Y^{88}	$1.841^{\pm 4}$	105d	*1*
Cr^{51}	$0.321^{\pm 2}$	27.8d	*2*		$0.900^{\pm 3}$		
Au^{198}	0.411762^{-32}	2.70d	*2*	Sb^{124}	$2.088^{\pm 4}$	60.6d	*1*
Be^{7}	$0.4780^{\pm 3}$	53.4d	*3*		$1.692^{\pm 2}$		
Cs^{137}	$0.66162^{\pm 16}$	28y	*1*	RdTh(ThC″)	$2.61425^{\pm 50}$	1.91y	*1*
I^{131}	$0.7239^{\pm 7}$	8.066d	*2*	Na^{24}	$2.7535^{\pm 10}$	14.87h	*2*
	$0.6380^{\pm 6}$				$1.3679^{\pm 10}$		
	$0.364467^{\pm 50}$			Pu-α	$Be^{9}(\alpha,n\gamma)C^{12}$ $4.432^{\pm 10}$	24,400y	*3*
	$0.284307^{\pm 49}$			Ra-α		1,622y	
	$0.080164^{\pm 9}$			Po-α		138.4d	
Mn^{54}	$0.835^{\pm 2}$	313.5d	*1*				
Zn^{65}	$1.114^{\pm 2}$ *	244.4d	*2*				
Sc^{46}	$1.118^{\pm 3}$	83.9d	*1*				

* Also annihilation radiation: $0.51094^{\pm 7}$ Mev (*4*).
† Exponents are uncertainty in last digits.

* * *

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Organic-Irradiation Yields

By GEORGE ODIAN, *Radiation Applications Inc., Long Island City, New York*

Radiation-Induced Graft Polymerization

Polymer —monomer[a]	*Dose rate (Mrads per hr)*	*Film thickness (mils)*	*%graft per megarad*[b]
Cellulose (cellophane) —methylmethacrylate (*1*)	0.3	1	440
Cellulose (filter paper) —styrene (*1*)	0.3	10	9.8
Kel-F			
—acrylic acid (*1*)	0.3	9.6	85.3
—acrylonitrile (*1*)	0.3	10.5	13.3
—styrene (*1*)	0.3	10.5	0.5
—vinylacetate (*1*)[c]	0.3	10.5	41.0
Nylon			
—methylacrylate, 50 vol% in methanol (*2*)	0.07	3	140[d]
—styrene, 90 vol% in methanol (*2*)	0.075	3	237[d]
Polyethylene (high density)			
—methylacrylate (*2*)	0.07	3	38.5[d]
—methylacrylate, 30 vol% in methanol (*2*)	0.07	3	131[d]
—styrene (*2*)	0.069	3	149[d]
—styrene, 50 vol% in methanol (*2*)	0.069	3	485[d]
Polyethylene (low density)			
—acrylic acid (*1*)	0.3	3	77.3
—acrylonitrile, 25 vol% in DMF (*3*)	0.067	4	49.3[d]
—methylmethacrylate (*3*)	0.067	4	1,433[d]
—styrene (*2*)	0.067	3	64.2[d]
—styrene, 30 vol% in methanol (*2*)	0.067	3	178[d]
—styrene-acrylonitrile, 1:4 by mole % (*4*)	0.05	1.5	464[d]
—styrene-methylacrylate, 3.5*M*:6.7*M* (*2*)	0.074	3	87.8[d]
—styrene-maleic anhydride, saturated (*2*)	0.10	1	230[d]
—styrene-4-vinylpyridine, 4.4*M*:4.7*M* (*2*)	0.069	3	78.2[d]
—vinylidene chloride (*5*)	0.032		19[d]
—vinylcarbazole, 1.5*M* in xylene (*1*)	0.25	10	5.3
—4-vinylpyridine (*2*)	0.07	3	309[d]
—vinylstearate, 60% in benzene (*3*)			2.7
Polymethylmethacrylate —styrene (*3*)	0.2–0.3		19.8
Polypropylene			
—styrene (*2*)	0.074	5	72.8[d]
—styrene, 50 vol% in methanol (*2*)	0.074	5	345[d]
—styrene-methacrylic acid, 1:2 by mole % (*6*)	0.05	2	966[d]
Polyvinyl alcohol			
—acrylamide, sat'd. soln. in water (*1*)	0.30	6	81.7
—acrylonitrile, 6% soln. in water (*1*)	0.30	6	7.3
—styrene (*1*)	0.30	5.5	10.3
—vinylacetate (*1*)[c]	0.30	5.5	7.0
Polyvinyl chloride —acrylonitrile (*1*)	0.30	40	44.0
Rubber, natural			
—acrylonitrile (*3*)	0.2–0.3		49.0
—methylmethacrylate (*7*)	0.05		80.0
Teflon			
—acrylic acid (*1*)[c]	0.30	3	57.0
—styrene (*3*)	0.18	1	1.5[d]
—vinylacetate, 7*M* in ethylacetate (*1*)	0.015	3	166[d]
—*N*-vinylpyrollidone, 20% in water (*3*)	0.17	1	5.9[d]

Notes:

a. Each group of materials is headed by the polymer followed by the monomer(s) grafted to the polymer. References are in parentheses.

b. % Graft = (increase in weight)/(initial weight) × 100.

c. Undistilled monomer used; all other data were obtained with purified monomers.

d. These data are the results of kinetic experiments; all other rates are based on data of a nonkinetic nature.

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Radiation-Induced Polymerization[a]

Monomer	*Dose rate (megarads per hr)*	*% Conversion per megarad*[b]	*Ref.*
Acrylamide[c]	0.06	100	*1*
Acrylic acid[c]	0.31	>1,300	*2*
Acrylonitrile	0.06	160	*1*
Butadiene	0.06	0.2	*1*
Calcium acrylate[c]	0.19	95	*2*
Ethylene	0.48	2.8	*3*
Formaldehyde (at −80° C)	0.00078	30,000	*4*
Isobutene (at −78.5° C)	0.056	5.3	*5*
Methylacrylate	0.06	300	*1*
Methylmethacrylate	0.06	66.7	*1*
Styrene	0.06	3.0	*1*
Vinylacetate	0.06	450	*1*
Vinylcarbazole	0.22	5.0	*2*
Vinyl chloride	0.06	250	*1*
Vinylpyrollidone (5% in 1:3 methanol-water)	0.54	633	*6*
Vinylstearate[c]	0.19	105	*2*

Notes:

a. All data are for polymerizations at room temperature (20°–30° C) unless otherwise noted.

b. % Conversion = (weight of polymer produced)/(initial weight of monomer) × 100.

c. Solid-state polymerization.

References:

1. A. Chapiro, J. Sebban-Danon, *J. Chim. Phys.* **54**, 276 (1957)
2. A. J. Restaino et al., *J. Am. Chem. Soc.* **78**, 2939 (1956); Simposio Inter. di Chim. Macrom., Milan (1954)
3. T. D. Callinan, ONR Symposium Report, ACR-2, Washington (1954); *Elec. Eng.* **74**, 510 (1955); *J. Electrochem. Soc.* **103**, No. 5, 292 (1956)
4. C. Chachaty et al., Inter. Sym. on Macrom. Chem., Moscow (1960)
5. R. Worrall, A. Charlesby, *J. Appl. Rad. Isotopes* **4**, 84 (1958)
6. D. S. Ballantine et al., BNL-294 (1954); BNL-317 (1954)

Table of Radioactive Nuclides

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ALL THE CURRENTLY known radioactive nuclides (over 1,250) are listed here with their half-lives, emissions and decay energies.

Energies. Beta and gamma energies (in Mev) are limited to four plus a range, given in order of decreasing intensity. When known, the percentage of disintegrations (intensity) giving a particular energy appears in a smaller-sized superscript numeral following the energy. The radiations of nuclide decay products (in parentheses) are included whenever the decay product is markedly shorter-lived than its parent; in such cases, the daughter's radiations are difficult to distinguish from the parent's.

The dash between two energies indicates that there are three or more radiations in that range of lesser intensities than those already given. A dash following several energies indicates additional energies of lesser intensity. Percentages applied to gamma energies are transition intensities rather than photon intensities; they also include conversion-electron intensities.

Notation: In the half-lives, y = years, d = days, h = hours, m = minutes, s = seconds, ms = milliseconds, μs = microseconds.

"No γ" means that gammas have been searched for but not found (excepting perhaps X-rays from electron capture and 0.51-Mev annihilation gammas from positrons).

$^{?m}$ indicates uncertainty as to whether this activity or its isomer is the metastable state.

CE = conversion electron.
EC = electron capture.
IT = isomeric transition.
SF = spontaneous fission.

Data sources:

1. "Nuclear Data Sheets" of the Nuclear Data Project of the National Academy of Sciences—National Research Council provided 1958–1959 data
2. D. Strominger, J. M. Hollander, G. T. Seaborg. Table of Isotopes, *Rev. Mod. Phys.* **30,** 585 (1958).
3. Where available, current data (through 1960) from original published papers

This table will be used subsequently as the basis for the sixth edition of the GE "Chart of the Nuclides," probably to be published in early 1961.

Nuclide	$T_{1/2}$	*Particle energies*	*γ energies*	E_{decay}
n^{1}	12m	$\beta^{-}.78^{100}$		$\beta^{-}.78$
$_{1}H^{2}$	12.26y	$\beta^{-}.0186^{100}$	no γ	$\beta^{-}.0186$
$_{2}He^{6}$	.82s	$\beta^{-}3.50^{100}$	no γ	$\beta^{-}3.50$
$_{3}Li^{8}$	.84s	$\beta^{-}13(2\alpha 3^{100})$		$\beta^{-}16.0$
Li^{9}	.17s	$\beta^{-}(2\alpha)(n)$		$\beta^{-}14$
$_{4}Be^{7}$	53d	EC	$.477^{12}$	EC.86
Be^{10}	$2.7 \cdot 10^{6}$y	$\beta^{-}.56^{100}$	no γ	$\beta^{-}.56$
Be^{11}	13.6s	$\beta^{-}11.5^{61},9.3^{39},$-	$2.12^{32},6.8^{4},4.6$-8.0	$\beta^{-}11.5$
$_{5}B^{8}$	.78s	$\beta^{+}14(2\alpha 3^{100})$		$\beta^{+}18$
B^{12}	19ms	$\beta^{-}13.4^{97},9.0^{1},(\alpha.20^{1})$		$\beta^{-}13.4$
B^{13}	~35ms	β^{-}		$\beta^{-}13.4$
$_{6}C^{10}$	19s	$\beta^{+}1.9,$-	$.72^{98},1.04^{2}$	$\beta^{+}3.6$
C^{11}	20.5m	$\beta^{+}.96^{100}$	no γ	$\beta^{+}1.98$
C^{14}	5600y	$\beta.158^{100}$	no γ	$\beta^{-}.158$
C^{15}	2.3s	$\beta^{-}4.51^{68},9.81^{32}$	5.30^{32}	$\beta^{-}9.81$
$_{7}N^{12}$	12ms	$\beta^{+}16.4$		$\beta^{+}17.4$
N^{13}	10.0m	$\beta^{+}1.19^{100}$		$\beta^{+}2.21$
N^{16}	7.4s	$\beta^{-}4.3^{68},10.4^{26},$-	$6.13^{73},7.12^{5}$	$\beta^{-}10.4$
N^{17}	4.14s	$\beta^{-}3.7(n1.1)$		$\beta^{-}8.8$
$_{8}O^{14}$	72s	$\beta^{+}1.83^{99},4.14^{1}$	2.31^{1}	$\beta^{+}5.16$
O^{15}	2.03m	$\beta^{+}1.73^{100}$	no γ	$\beta^{+}2.75$
O^{19}	29s	$\beta^{-}3.25^{58},4.60^{42}$	$.200^{96},1.36^{54}$	$\beta^{-}4.80$
O^{20}	14s	$\beta^{-}2.69^{100}$ (5.42^{100})	$1.06^{100}(1.63^{100})$	$\beta^{-}3.75$
$_{9}F^{17}$	66s	$\beta^{+}1.75$	no γ	$\beta^{+}2.77$
F^{18}	1.87h	$B^{+}.65^{97}EC^{3}$	no γ	$\beta^{+}1.67$
F^{20}	11s	$\beta^{-}5.42^{100}$	1.63^{100}	$\beta^{-}7.05$
F^{21}	5s	β^{-}		$\beta^{-}5.7$
$_{10}Ne^{18}$	1.3s	$\beta^{+}3.4$		$\beta^{+}4.4$
Ne^{19}	18s	$\beta^{+}2.23$	no γ	$\beta^{+}3.25$
Ne^{23}	38s	$\beta^{-}4.39^{67},3.95^{32},$-	$.44^{23},$-	$\beta^{-}4.39$
Ne^{24}	3.38m	$\beta^{-}1.98^{92},1.10^{8}$	$.47^{100},.88^{8}$	$\beta^{-}2.45$
$_{11}Na^{20}$	0.3s	$\beta^{+}(\alpha>2)$		$\beta^{+}15$
Na^{21}	23s	$\beta^{+}3.50,$-	$.35^{2}$	$\beta^{+}3.52$
Na^{22}	2.58y	$\beta^{+}.54,$-$^{90}EC^{10}$	1.28^{100}	$\beta^{+}2.84$
Na^{24m}	20ms	IT	.47	IT.47
Na^{24}	15.0h	$\beta^{-}1.39,$-	$2.75^{100},1.37^{100},$-	$\beta^{-}5.51$
Na^{25}	60s	$\beta^{-}3.8,2.8,$-	$.98^{15},.58^{15},.40^{15},$ $1.61,$-	$\beta^{-}3.8$
$_{12}Mg^{23}$	12s	$\beta^{+}3.0,$-	$.44^{9}$	$\beta^{+}4.0$
Mg^{27}	9.5m	$\beta^{-}1.75^{70},1.57^{30}$	$.83^{70},1.01^{30}$	$\beta^{-}2.58$
Mg^{28}	21.3h	$\beta^{-}.45^{100}(2.87^{100})$ CE^{3}	$.032^{100},1.35^{70},$ $.95^{30},.40^{30}(1.78^{100})$	$\beta^{-}1.83$

Nuclide	$T_{1/2}$	*Particle energies*	*γ energies*	E_{decay}
$_{13}Al^{24}$	2.1s	$\beta^{+}8.5,$-$(\alpha 2.^{01})$	1.38-7.1	$\beta^{+}14$
Al^{25}	7.3s	$\beta^{+}3.24,$-	.58-1.6$^{<1}$	$\beta^{+}4.26$
Al^{26m}	6.5s	$\beta^{+}3.21$		$\beta^{+}4.23$
Al^{26}	$7 \cdot 10^{5}$y	$\beta^{+}1.16^{85}EC^{15}$	$1.83^{100},1.12^{4},$-	$\beta^{+}EC4.01$
Al^{28}	2.30m	$\beta^{-}2.87^{100}$	1.78^{100}	$\beta^{-}4.65$
Al^{29}	6.6m	$\beta^{-}2.5^{85},1.4^{15}$	$1.28^{85},2.43^{15}$	$\beta^{-}3.8$
$_{14}Si^{26}$	2s	β^{+}	.82	$\beta^{+}5.0$
Si^{27}	4.2s	$\beta^{+}3.85,$-	$.84^{<0.2},1.01^{<0.2}$	$\beta^{+}4.87$
Si^{31}	2.62h	$\beta^{-}1.48,$-	1.26^{-07}	$\beta^{-}1.48$
Si^{32}	~300y	$\beta^{-}.1^{100}(1.71^{100})$	no γ	$\beta^{-}.1$
$_{15}P^{28}$	0.28s	$\beta^{+}11^{50},8,$-	$1.78^{76},2.6$-7.6	$\beta^{+}14$
P^{29}	4.5s	$\beta^{+}3.94^{99},$-	$1.28^{1},2.43^{-2}$	$\beta^{+}4.96$
P^{30}	2.55m	$\beta^{+}3.3$		$\beta^{+}4.3$
P^{32}	14.3d	$\beta^{-}1.71$	no γ	$\beta^{-}1.71$
P^{33}	25d	$\beta^{-}.25$	no γ	$\beta^{-}.25$
P^{34}	12.4s	$\beta^{-}5.1^{75},3.0^{25}$	$2.1^{25},4.0^{-2}$	$\beta^{-}5.1$
$_{16}S^{31}$	2.6s	$\beta^{+}4.42^{99},$-	1.27^{1}	$\beta^{+}5.44$
S^{35}	87d	$\beta^{-}.167$	no γ	$\beta^{-}.167$
S^{37}	5.0m	$\beta^{-}1.6^{90},4.7^{10}$	3.1^{10}	$\beta^{-}4.7$
S^{38}	2.9h	$\beta^{-}1.1^{85},3.0^{5}$ $(4.8^{53},$-)	$1.88^{95}(2.1^{47},1.6^{31})$	$\beta^{-}3.0$
$_{17}Cl^{32}$	0.31s	$\beta^{+}10^{50},8(\alpha 3^{-02})$	$2.2^{70},4.8^{14},$-	$\beta^{+}13$
Cl^{33}	2.8s	$\beta^{+}4.5$	$2.8^{0.3}$	$\beta^{+}5.5$
Cl^{34m}	32.4m	$\beta^{+}2.54^{31},1.32^{30}$ $(4.47^{39})IT^{39},CE^{5}$	$2.09^{43},.14^{39},$ $1.2^{18},3.3^{7}$	$\beta^{+}5.65,$ IT.14
Cl^{34}	1.5s	$\beta^{+}4.47$		$\beta^{+}5.49$
Cl^{36}	$3 \cdot 10^{5}$y	$\beta^{-}.71^{98}EC^{2}$	no γ	EC1.14,$\beta^{-}.71$
Cl^{38m}	1s	IT	.66	IT.66
Cl^{38}	37.3m	$\beta^{-}4.8^{53},1.1^{31},$ 2.8^{16}	$2.1^{47},1.6^{31}$	$\beta^{-}4.8$
Cl^{39}	55m	$\beta^{-}1.91^{85},2.18^{8},$ 3.45^{7}	$1.27^{51},.25^{43},.52^{42}$	$\beta^{-}3.45$
Cl^{40}	1.4m	$\beta^{-}3.2,7.5$	2.75,1.46,6.0	$\beta^{-}7.5$
$_{18}Ar^{35}$	1.8s	$\beta^{+}4.96^{93},$-	$1.19^{5},1.73^{2}$	$\beta^{+}5.98$
Ar^{37}	35d	EC^{100}	no γ	EC0.82
Ar^{39}	260y	$\beta^{-}.57$	no γ	$\beta^{-}.57$
Ar^{41}	1.83h	$\beta^{-}1.20^{99},2.49^{1}$	1.29^{99}	$\beta^{-}2.49$
Ar^{42}	>3.5y	$\beta^{-}(3.55^{82},2.03^{18})$	$(\gamma 1.52^{18})$	
$_{19}K^{37}$	1.2s	$\beta^{+}5.1$		$\beta^{+}6.1$
K^{38}	0.97s	$\beta^{+}4.8$		$\beta^{+}5.8$
K^{38}	7.7m	$\beta^{+}2.7$	2.1^{100}	$\beta^{+}5.8$
K^{40}	$1.3 \cdot 10^{9}$y	$\beta^{-}1.32^{89},EC^{11}$	1.46^{11}	EC1.51,$\beta^{-}1.32$

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
K^{42}	12.4h	$\beta^-3.55^{82},2.03^{18}$	1.52^{18},-	$\beta^-3.55$
K^{43}	22h	$\beta^-.83^{87},.24\text{-}1.84$	$.37^{85},.62^{51},.22\text{-}1.00$	$\beta^-1.84$
K^{44}	22m	$\beta^-4.9,1.5$	1.1,2.1,2.5,-	
K^{45}	34m	β^-		
$_{20}Ca^{38}$	0.7s		3.5	
Ca^{39}	0.9s	$\beta^+5.5$	2.5<1	
Ca^{41}	$1.1\cdot10^5$y	EC		EC.41
Ca^{45}	160d	$\beta^-.25^{100}$	no γ	$\beta^-.25$
Ca^{47}	4.7d	$\beta^-.66^{83},1.94^{17}$ $(.45^{64},.61^{36})$	$1.31^{77},.83^6,.48^6$ $(.159^{64})$	$\beta^-1.94$
Ca^{49}	8.7m	$\beta^-2.0^{89},.89$,-	$3.10^{89},4.05^8,4.68^3$	$\beta^-5.1$
$_{21}Sc^{40}$	18ms	$\beta^+9.2$	3.75	β^+14
Sc^{41}	0.87s	β^+5		β^+6
Sc^{42}	0.66s	$\beta^+4.8$		$\beta^+5.8$
Sc^{43}	3.9h	$\beta^+1.19^{72},.82^{16}$,-	$.37^{16},.62^4,.25^1$	$\beta^+2.21$
Sc^{44m}	2.4d	IT,CE^{13} $(\beta^+1.47^{93},-)$	$.27(1.16^{100},-)$	IT.27
Sc^{44}	4.0h	$\beta^+1.47^{93}$,EC^7	$1.16^{100},2.54^{0.1}$	β^+,EC3.65
Sc^{46m}	20s	IT,CE	.14	IT.14
Sc^{46}	84.0d	$\beta^-.36$,-	$1.12^{100},.89^{100}$,-	$\beta^-2.37$
Sc^{47}	3.4d	$\beta^-.45^{64},.61^{36}$	$.159^{64}$	$\beta^-.61$
Sc^{48}	44h	$\beta^-.65^{100}$	$1.31^{100},1.04^{100}$, $.99^{100}$	$\beta^-3.99$
Sc^{49}	57m	$\beta^-2.0^{100}$	no γ	$\beta^-2.0$
Sc^{50}	22m		.49	
Sc^{50}	1.7m	$\beta^-3.5^{100}$	$1.59^{100},1.17^{100}$	$\beta^-6.3$
$_{22}Ti^{43}$	0.6s	β^+		
Ti^{44}	$\sim10^3$y	EC,$(\beta^+1.47^{93})$	$.079^{100},.070^{100}$ $(1.16^{100},-)$	
Ti^{45}	3.08h	$\beta^+1.02$,EC		β^+,EC2.04
Ti^{51}	5.80m	$\beta^-2.13^{95},1.52^5$	$.32^{96},.93^4,.61^1$	$\beta^-2.45$
$_{23}V^{45}$	~1s	β^+		
V^{46}	0.4s	$\beta^+>6$		$\beta^+>7$
V^{47}	32m	$\beta^+1.89^{100}$	no γ	$\beta^+2.91$
V^{48}	16.1d	$\beta^+.70^{56}$,EC^{44}	$.99^{100},1.31^{98}$, 2.25^2	EC,$\beta^+4.02$
V^{49}	330d	EC	no γ	EC.62
V^{50}	$4\cdot10^{14}$y	EC		
V^{52}	3.77m	$\beta^-2.6$	1.44^{100}	$\beta^-4.0$
V^{53}	2.0m	$\beta^-2.50$	1.00,-	
V^{54}	55s	$\beta^-3.3$	$.99^{100},.84^{100},2.21$	
$_{24}Cr^{46}$	1.1s	β^+		
Cr^{48}	23h	EC	$.30^{100},.12^{95}$	
Cr^{49}	42m	$\beta^+1.54^{50},1.39^{25}$,- CE^6	$.09^{30},.15^{15},.06^{15}$	$\beta^+2.56$
Cr^{51}	27.8d	EC	$.32^{10}$,-	EC.75
Cr^{55}	3.6m	$\beta^-2.8^{100}$	no γ	$\beta^-2.8$
Cr^{56}	5.9m	$\beta^-1.5$	$.083^{100},.026^{100}$	$\beta^-1.6$
$_{25}Mn^{50}$	0.28s	$\beta^+>6$		$\beta^+>7$
Mn^{51}	45m	$\beta^+2.2$		$\beta^+3.2$
Mn^{52m}	21m	$\beta^+2.63^{100}$,$IT^{.05}$	$1.46^{100},.39^{.05}$	$\beta^+5.09$, IT0.39
Mn^{52}	5.7d	$EC^{67},\beta^+.6^{33}$	$1.46^{100},.94^{100}$, $.73^{100}$	EC,$\beta^+4.7$
Mn^{53}	$\sim10^6$y	EC^{100}	no γ	EC0.60
Mn^{54}	280d	EC^{100}	$.84^{100}$	EC1.38
Mn^{56}	2.58h	$\beta^-2.86^{60},1.05^{24}$, $.75^{15}$	$.84^{99},1.81^{23},2.11^{14}$	$\beta^-3.70$
Mn^{57}	1.7m	$\beta^-2.6$	.117,.134,-	
$_{26}Fe^{52}$	8h	$\beta^+.80^{55}$,EC^{45} $(\beta^+2.63^{100})$	$.17^{100}(1.46^{100},-)$	
Fe^{53}	9m	$\beta^+2.6$	.37	$\beta^+3.6$
Fe^{55}	2.6y	EC^{100}	no γ	EC0.22
Fe^{59}	45d	$\beta^-.46^{53},.27^{46}$, $1.56^{0.3}$	$1.10^{56},1.29^{44}$, $.19^3$,-	$\beta^-1.56$
Fe^{60}	$\sim3\cdot10^5$y	β^-	$(1.33^{100},1.17^{100}$, $.059^{100})$	
Fe^{61}	6m	$\beta^-2.8$	.29,-	
$_{27}Co^{54}$	0.18s	$\beta^+>7.4$		$\beta^+>8.4$
Co^{55}	18h	$\beta^+1.51^{40},1.04^{36}$ $-EC^{21}$	$.93^{75},1.41^{15}$, $.48^{15}$,-	β^+,EC3.46
Co^{56}	77d	$EC^{82},\beta^+1.50^{18}$	$.84^{100},1.24^{70}$, 1.0-2.3	EC,$\beta^+4.60$
Co^{57}	270d	EC^{100},CE	$.122^{99},.014^{99}$, $.134^1$	EC0.57
Co^{58m}	9.0h	IT^{100},CE	.025	IT0.025
Co^{58}	71d	$EC^{85},\beta^+.48^{15}$	$.81^{100},1.62^{0.5}$	EC,$\beta^+2.31$
Co^{60m}	10.5m	$IT^{99.7},\beta^-1.54^{0.3}$ CE	$.059^{99.7},1.33^{0.3}$	IT0.059
Co^{60}	5.27y	$\beta^-.31^{100},1.48^{0.01}$	$1.33^{100},1.17^{100}$,-	$\beta^-2.81$
Co^{61}	1.65h	$\beta^-1.22^{100}$	$.070^{100}$	$\beta^-1.29$
Co^{62}	1.6m	β^-		
Co^{62}	13.9m	$\beta^-2.88^{75},.85^{25}$	$1.17^{182},1.47^{18}$, $1.73^{18},2.03^7$	$\beta^-5.22$
Co^{63}	1.4h	β^-		
Co^{64m}	2m	IT	.4-2.3	
Co^{64}	8m	β^-	.4-2.3	

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
$_{28}Ni^{56}$	6.4d	EC^{100}	.16,.85,.95,.75, .26-1.74	
Ni^{57}	36h	$EC^{52},\beta^+.84^{40}$,-	1.37,1.89,1.27	EC,$\beta^+3.23$
Ni^{59}	$8\cdot10^4$y	EC^{100}	no γ	EC1.07
Ni^{63}	120y	$\beta^-.067^{100}$	no γ	$\beta^-0.067$
Ni^{65}	2.56h	$\beta^-2.10^{69},0.6^{23}$, 1.01^8	$1.49^{20},1.11^{10},.37^3$	$\beta^-2.10$
Ni^{66}	55h	$\beta^-.20^{100}$ $(2.63^{91},-)$	no γ $(\gamma1.04^9)$	$\beta^-0.20$
$_{29}Cu^{58}$	3.3s	$\beta^+7.44$		
Cu^{59}	81s	$\beta^+3.75^{67}$,-	$1.30^{11},.87^9,.46^5$, $.34^5$	$\beta^+4.77$
Cu^{60}	24m	$\beta^+2.00^{71},3.00^{18}$, 3.92^6,EC^5	1.33,1.76,.85, 2.1-4.0	β^+EC6.27
Cu^{61}	3.3h	$\beta^+1.21^{51}$,-EC^{26}	$.28^{10},.66,1.22$,-	β^+,EC2.23
Cu^{62}	9.8m	$\beta^+2.91$,-	$.66^2,.85\text{-}2.24$	$\beta^+3.93$
Cu^{64}	12.9h	$EC^{43},\beta^-.57^{38}$, $\beta^+.66^{19}$	1.34^1	EC,$\beta^+1.68$,$\beta^-0.57$
Cu^{66}	5.1m	$\beta^-2.63^{91},1.59^9$,-	1.04^9	$\beta^-2.63$
Cu^{67}	61h	$\beta^-.40^{45},.48^{55}$, $.58^{20}$,CE	.182,.090,.092	$\beta^-0.58$
Cu^{68}	32s	$\beta^-.30$		
$_{30}Zn^{60}$	2.1m			
Zn^{61}	89s	$\beta^+4.38^{80}$,-	$.48^{11},1.64^6,.98^3$, $.69^2$	$\beta^+5.40$
Zn^{62}	9.3h	$EC^{80},\beta^+.67^{19}$,- $(2.91,-)$,CE^{12}	$.042^{36},.60^{22}$,- $(.66^2,-)$	EC,$\beta^+1.69$
Zn^{63}	38m	$\beta^+2.36^{73}$,-EC^6	.67,.96,.81-2.9	β^+,EC3.38
Zn^{65}	245d	$EC^{98},\beta^+.33^2$	1.11^{50}	EC,$\beta^+1.35$
Zn^{69m}	13.9h	$IT^{100}(\beta^-.90^{100})$ CE^5	.44	IT0.44
Zn^{69}	57m	$\beta^-.90^{100}$	no γ	
Zn^{71m}	3h	$\beta^-1.5^{100}$	$.61^{100},.48^{100},.38^{100}$	$\beta^-3.0$
Zn^{71}	2.2m	$\beta^-2.4^{100}$	$.51^{100}$	$\beta^-2.9$
*Zn^{72}	49h	$\beta^-.3^{95},1.6^5(.64\text{-}3.17)$	$(.84,.69,.11\text{-}2.82)$	$\beta^-1.6$
$_{31}Ga^{64}$	2.6m	$\beta^+6.1^{61},2.8^{38}$,-	.99,3.3,.80-3.0	$\beta^+7.1$
Ga^{65}	15m	$\beta^+2.11^{46}$,.82-2.24	.12,.054-1.86	$\beta^+3.26$
Ga^{66}	9.5h	$\beta^+4.15^{49}$,-,EC	$1.04^{37},2.75^{25}$, .83-4.8	β^+,EC5.17
Ga^{67}	78h	EC^{100}	$.092^{69},.182^{24}$, $.30^{22},.090\text{-}.87$	EC1.00
Ga^{68}	68m	$\beta^+1.89^{86}$,-,EC	1.07^4,.81-1.88	β^+,EC2.91
Ga^{70}	21m	$\beta^-1.65^{99}$,-	1.04^1,-	$\beta^-1.65$
*Ga^{72}	14.1h	$\beta^-.64\text{-}3.17$	.84,.69,.11-2.82	$\beta^-4.00$
Ga^{73}	4.8h	$\beta^-1.19^{91}$,- (CE^{190})	$.30^{91},.74^7$,- $(.054^{100},.014^{100})$	$\beta^-1.56$
Ga^{74}	8m	$\beta^-2.65,2.0,1.1$	.60,2.3,.30-2.8	
$_{32}Ge^{65}$	1.5m	$\beta^+3.7^{94}$-	$.67^3,1.72^2$	$\beta^+4.7$
Ge^{66}	2.7h	$\beta^+1.3^{69},2.0^7$, EC^{24}	$.38^{40},.046^{50}$, $.183^{30},.068\text{-}.47$	β^+,EC3.0
Ge^{67}	19m	$\beta^+3.1^{60},2.3^{24}$, 1.6^8,EC^5	.17,.92,.34-3.4	β^+,EC4.3
Ge^{68}	280d	$EC(\beta^+1.89^{86}$,-)	$(\gamma1.07^4,.81\text{-}1.88)$	
Ge^{69}	40h	$EC^{87},\beta^+1.21^{29}$, $.61^3$,-	1.12,.58,.88, .09-2.00	EC,$\beta^+2.23$
Ge^{71m}	20ms	IT,CE^{10}	$.175^{100},.023^{100}$	IT.198
Ge^{71}	11d	EC	no γ	EC.23
Ge^{73m}	0.53s	IT,CE^{180}	$.054^{100},.014^{100}$	IT.068
Ge^{73m}	49s	$ITCE^{70}$	$.139^{100}$	IT.139
Ge^{75}	82m	$\beta^-1.18^{86},.92^{11}$,-	$.265^{11},.066\text{-}.63$	$\beta^-1.18$
*Ge^{77m}	54s	$\beta^-2.9^{75}$,-IT^{14}	$.159^{14},.215^8$	IT,159,$\beta^-2.9$
*Ge^{77}	11h	$\beta^-2.20^{42},1.38^{35}$, $.71^{23}$,-	.215,.265,.04-2.3	$\beta^-2.67$
*Ge^{78}	2.1h	$\beta^-.9$		
$_{33}As^{68}$	7m	β^+		
As^{69}	15m	$\beta^+2.9$	.23	
As^{70}	50m	$\beta^+1.4^{34},2.4^{26}$, EC^{20}	$1.04^{100},2.0,.18\text{-}1.7$	β^+,EC6.6
As^{71}	62h	$EC^{45},\beta^+.81^{55}$, CE^{10}	$.175^{100},.023^6$	EC,$\beta^+2.01$
As^{72}	26h	$\beta^+2.50^{56},3.34^{17}$,-, EC^{23}	$.84^{77},.63^8,.69\text{-}3.7$	β^+,EC4.36
As^{73}	76d	$EC(CE^{180})$	$(\gamma.054^{100},.014^{100})$	EC.37
As^{74}	18d	$EC^{35},\beta^+.91^{26}$, $1.51^4,\beta^-1.36^{18}$,-	$.60^{60},.64^{14},1.00\text{-}2.2$	EC, $\beta^+2.53$,$\beta^-1.36$
As^{75m}	17ms	IT	$.280^{81},.025^{81}$, $.305^{19}$	IT.305
As^{76}	26.5h	$\beta^-2.97^{58},2.41^{31}$,-	$.56^{45},1.21^6,.66^4$, .64-2.66	$\beta^-2.97$
*As^{77}	39h	$\beta^-.69^{98}$,-	$.24^2,.52^1$,-	$\beta^-.69$
As^{78m}	6m	IT	.50	IT.50
*As^{78}	91m	$\beta^-4.1^{70}$,-	$.62^{42},.70^{11},1.31^{10}$, .08-2.68	$\beta^-4.1$
*As^{79}	9m	$\beta^-2.3^{100}$	$.096^{100}$	$\beta^-2.4$
As^{80}	36s	β^-		

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
$_{34}Se^{70}$	44m	β^+		
Se^{71}	5m	$\beta^+3.4$	.16	
Se^{72}	8.6d	EC($\beta^+2.50^{56}$, 3.34^{17},-)	$.046^{100}$($.84^{77}$,$.63^{8}$, .69-3.7)	
Se^{73m}	44m	$\beta^+1.7$		
Se^{73}	7h	$\beta^+1.30^{99}$,1.65^{1}	$.066^{100}$,$.36^{99}$	$\beta^+2.68$
Se^{75}	120d	EC,CE	.265,.136(.280,-), .024-.58	
Se^{77m}	17s	IT,CE	.16	IT.16
Se^{79m}	3.9^{m}	IT,CE	.096	IT.096
Se^{79}	7×10^4y	$\beta^-.16^{100}$	no γ	$\beta^-.16$
*Se^{81m}	57m	IT,CE	.103	IT.103
*Se^{81}	18m	$\beta^-1.38^{100}$	no γ	$\beta^-1.38$
*Se^{83m}	69s	$\beta^-3.7,1.7$	1.01,2.02,.65,.36	$\beta^-3.7$
*Se^{83}	25m	$\beta^-1.0,1.7,.45$	.36,.52,.22,.83,.71-2.3	$\beta^-3.3$
*Se^{84}	3m	β^-		
*Se^{85}	39s	β^-		
*Se^{87}	17s	β^-		
$_{35}Br^{(<74)}$	4m			
Br^{74}	36m	$\beta^+4.7$	.64	
Br^{75}	1.6h	$\beta^+1.7$,-EC	.28	
Br^{76}	17h	$\beta^+3.1^{30}$,3.6^{11},-EC^{34}	$.56^{70}$,.65,1.21, .75-4.4	β^+,EC4.6
Br^{77}	57h	EC^{98},$\beta^+.34^{2}$	.52,.81,.086-1.0 (.16)	EC, $\beta^+1.36$
Br^{78m}	120μs	IT	.149	IT.149
Br^{78}	6.4m	$\beta^+2.52$,-	.62	$\beta^+3.54$
Br^{79m}	5s	IT	.21	
Br^{80m}	4.5h	IT,CE^{80}	$.049^{100}$,$.037^{100}$	IT.086
Br^{80}	18m	$\beta^-2.00^{78}$,1.38^{14}, EC^{5},$\beta^+.86^{3}$	.62	EC,$\beta^+1.88$,$\beta^-2.00$
Br^{81m}	37μs	IT	$.27^{100}$,$.28^{100}$	IT0.55
*Br^{82}	35.9h	$\beta^-.44^{100}$	.78,.55,.62,.70-1.47	$\beta^-3.09$
*Br^{83}	2.3h	$\beta^-.94$,-(CE^{190})	$.051^{20}$($.032^{100}$, $.009^{100}$)	$\beta^-.98$
*Br^{84m}	6m	$\beta^-1.9^{72}$,0.8^{20}, 3.2^{8}	$.88^{70}$,1.46^{60},$.44^{60}$ 1.89^{20}	
*Br^{84}	32m	$\beta^-4.7^{32}$,2.8^{15},-	.88,2.1,1.9,.27-3.9	$\beta^-4.7$
*Br^{85}	3.0m	$\beta^-2.5^{100}$	no γ	$\beta^-2.5$
*Br^{87}	56s	$\beta^-2.6^{70}$,8.0^{30} ($n0.3^{2}$)	3.2,5.4	$\beta^+8.0$
*Br^{88}	15.5s	$\beta^-(n)$		
*Br^{89}	4.5s	$\beta^-(n0.5)$		
$_{36}Kr^{74}$	12m			
Kr^{75}	5.5m			
Kr^{76}	10h	EC	.028-.40	
Kr^{77}	1.2h	$\beta^+1.86^{50}$,1.67^{25},-, EC^{20}	.108,.131,.024, .149-.87	β^+EC2.88
Kr^{79m}	55s	IT	.127	IT.127
Kr^{79}	34h	EC^{92},$\beta^+.60^{7}$,-	.044,.261,.136, .08-.83	EC, $\beta^+1.62$
Kr^{81m}	13s	IT,CE^{24}	$.190^{100}$	IT.190
Kr^{81}	2×10^5y	EC	no γ	
*Kr^{83m}	1.86h	IT,CE^{190}	$.032^{100}$,$.009^{100}$	IT.041
*Kr^{85m}	4.4h	$\beta^-.83^{78}$,IT^{22}, CE^{13}	$.150^{78}$,$.305^{22}$	IT.305, $\beta^-.98$
*Kr^{85}	10.4y	$\beta.67^{99}$,$.15^{1}$	$.52^{1}$	$\beta^-.67$
*Kr^{87}	78m	$\beta^-3.8$,1.3,3.3	.40,2.57,.85,-	$\beta^-4.2$
*Kr^{88}	2.8h	$\beta^-.52^{68}$,2.7^{20},-CE^{8}	2.4,.19,.028-2.40	$\beta^-2.9$
*Kr^{89}	3.2m	$\beta^-4.0$		
*Kr^{90}	33s	$\beta^-3.2$		
*Kr^{91}	10s	$\beta^-3.6$		
*Kr^{92}	3s	β^-		
*Kr^{93}	2s	β^-		
*Kr^{94}	1s	β^-		
*Kr^{95}	short	β^-		
*Kr^{97}	~1s	β^-		
$_{37}Rb^{79}$	24m	β^+	.15,.19	
Rb^{80}	34s	β^+4^{98},EC^{2}	.62	
Rb^{81m}	32m	$\beta^+1.4$,IT	.085	IT.085
Rb^{81}	4.7h	EC^{87},$\beta^+1.03^{7}$,-(CE^{34})	($\gamma.19^{100}$).45,.25,1.1	EC, $\beta^+2.05$
Rb^{82m}	6.3h	EC^{94},$\beta^+.80^{6}$	.78,.62,.55,.70-1.47	
Rb^{82}	75s	$\beta^+3.2$	.78,1.4	$\beta^+4.2$
Rb^{83}	83d	EC(CE^{190})	$.53^{100}$($.032^{100}$, $.009^{100}$)	
Rb^{84m}	21m	IT^{90}EC^{10}	$.22^{90}$,.24,.46,.88	
Rb^{84}	33d	EC^{76},$\beta^+.8^{12}$, 1.63^{9},$\beta^-.91^{3}$	.88,1.01,1.90	Ec,$\beta^+2.65$, $\beta^-.91$
Rb^{86m}	1.0m	IT	.56	IT.56
*Rb^{86}	18.6d	$\beta^-1.77^{85}$,.7,-	1.08^{9},-	$\beta^-1.77$
*Rb^{87}	4.8×10^{10}y	$\beta^-.27$	no γ	$\beta^-.27$
*Rb^{88}	18m	$\beta^-5.2^{70}$,$33.^{17}$,2^{13}	1.85,.91,2.7, 1.39-4.9	$\beta^-5.2$
*Rb^{89}	15m	$\beta^-3.9^{7}$,2.8^{5},-	1.05,1.26,.66, 2.20,1.55-3.5	$\beta^-3.9$
*Rb^{90}	2.7m	$\beta^-5.7$		
*Rb^{91m}	1.7m	$\beta^-4.6$		
*Rb^{91}	14m	$\beta^-3.0$		
*Rb^{92}	1.3m	β^-		
*Rb^{93}	short	β^-		
*Rb^{94}	short	β^-		
*Rb^{95}	short	β^-		
*Rb^{97}	short	β^-		
$_{38}Sr^{80}$	1.8h	EC	.58	
Sr^{81}	29m	β^+,CE		
Sr^{82}	26d	EC($\beta^+3.2$)	(γ.78,1.4)	
Sr^{83}	33h	EC^{75},$\beta^+1.2^{25}$,CE	.040-.17	
Sr^{85m}	70m	IT^{86},EC^{14},CE^{11}	$.150^{86}$,$.225^{13}$, $.008^{13}$,$.233^{1}$	IT.233
Sr^{85}	64d	EC	$.51^{100}$	
Sr^{87m}	2.8h	IT,CE^{27}	$.39^{100}$	IT.39
*Sr^{89}	51d	$\beta^-1.46^{100}$	($\gamma.91^{-02}$)	$\beta^-1.46$
*Sr^{90}	28y	$\beta^-.54^{100}$,(2.27^{100})		$\beta^-.54$
*Sr^{91}	9.7h	$\beta^-1.09^{33}$,1.36^{29}, .62-2.67	(γ.55),1.02,.75, .65-1.41	$\beta^-2.67$
*Sr^{92}	2.6h	$\beta^-.54^{90}$,1.5^{10}	1.37^{90},$.44^{5}$,$.23^{4}$	$\beta^-1.93$
*Sr^{93}	8m	β^-		
*Sr^{94}	1.3m	β^-		
*Sr^{95}	0.7m	β^-		
*Sr^{97}	short	β^-		
$_{39}Y^{82}$	1.2h	β^+2		
Y^{83}	3.5h			
Y^{84}	3.7h	$\beta^+2.0$,EC		
Y^{85}	5h			
Y^{86}	15h	$\beta^+1.80^{50}$,1.17^{50}	1.93^{100},1.08^{100}, $.18^{100}$,$.63^{50}$	$\beta^+6.01$
Y^{87m}	14h	IT,CE^{20}	.38	IT.38
Y^{87}	80h	EC^{100},$\beta^+.7^{0.5}$	($\gamma.39^{100}$),.48	EC,$\beta^+2.1$
Y^{88mm}	300μs	IT,CE^{2}	.39	IT.39
Y^{88m}	14ms	IT	.24	IT.24
Y^{88}	105d	EC^{100},$\beta^+.6^{0.2}$	1.85^{99},$.91^{90}$, $2.76^{.005}$	EC,$\beta^+3.5$
*Y^{89m}	16s	IT,CE^{1}	.91	IT.91
*Y^{90}	64.2h	$\beta^-2.27^{100}$,-CE^{-02}	1.7^{-02}	$\beta^-2.27$
*Y^{91m}	50m	IT,CE^{5}	$.55^{100}$	IT.55
*Y^{91}	58d	$\beta^-1.54^{100}$,-	$1.20^{0.3}$	$\beta^-1.54$
*Y^{92}	3.5h	$\beta^-3.60$,2.7,1.3	.93,.48,1.45,.21-2.4	$\beta^-3.60$
*Y^{93}	10.3h	$\beta^-2.89^{90}$,-	$.27^{6}$,$.94^{2}$,.38-2.4	$\beta^-2.89$
*Y^{94}	20m	$\beta^-5.0^{40}$,-	$.92^{43}$,$.56^{6}$,1.13^{5}, 1.65-3.5	$\beta^-5.0$
*Y^{95}	10m	β^-		
*Y^{97}	short	β^-		
$_{40}Zr^{86}$	17h	EC($\beta^+1.80^{50}$, 1.17^{50})	.24(1.93^{100},1.08^{100}, $.18^{100}$,$.63^{50}$)	
Zr^{87}	1.6h	$\beta^+2.10$,-EC(CE^{20})	.6,.3($.38^{100}$)	β^+EC3.50
Zr^{88}	85d	EC(CE^{2})	($\gamma.39^{100}$)	
Zr^{89m}	4.4m	IT^{93},EC^{5},$\beta^+.9$, 2.4,CE^{7}	$.59^{93}$,1.5^{7}	EC,$\beta^+3.4$,IT.59
Zr^{89}	79h	EC^{75},$\beta^+.90^{25}$ (CE^{1})	($\gamma.91^{100}$)	EC,$\beta^+2.83$
Zr^{90m}	0.8s	IT	2.32^{100}	IT2.30
*Zr^{93}	9.5×10^5y	$\beta^-.063^{75}$,$.034^{25}$ (CE^{25})	($\gamma.029^{25}$)	$\beta^-.063$
*Zr^{95}	65d	$\beta^-.40^{55}$,$.36^{43}$, $.89^{2}$,($.16^{99}$)	$.72^{55}$,$.76^{43}$($.23^{2}$) ($.77^{99}$)	$\beta^-1.12$
*Zr^{97}	17h	$\beta^-1.91^{90}$,-(1.27^{99},-)	($\gamma.75^{96}$).5-2.6	$\beta^-2.66$
*Zr^{99}	30s	β^-		
$_{41}Nb^{89m}$	0.8h	β^+	($\gamma.59^{5}$)	
Nb^{89}	1.9h	$\beta^+2.9$		$\beta^+3.9$
Nb^{90mm}	15ms	IT,CE	$.25^{100}$	IT.37
Nb^{90m}	24s	IT,CE^{30}	$.12^{100}$	IT.12
Nb^{90}	14.6h	$\beta^+1.50^{97}$,-	1.14(2.32).14, .018-2.20	$\beta^+6.12$
Nb^{91m}	62d	IT^{90},EC^{10},CE^{88}	$.105^{90}$,1.19^{10}	IT.105
Nb^{91}	long	EC		EC>1.1
Nb^{92m}	13h	EC	2.35	
Nb^{92}	10.1d	EC	$.93^{97}$,$.89^{2}$,1.82^{1}	
Nb^{93m}	3.7y	IT,CE^{100}	$.029^{100}$	IT.029
Nb^{94m}	6.6m	IT^{100},$\beta^-1.3^{0.1}$, CE^{99}	$.042^{100}$,$.87^{0.1}$	IT.042,$\beta^-2.2$
Nb^{94}	2.0×10^4y	$\beta^-.5$	$.87^{99}$,$.70^{92}$,1.57^{8}	$\beta^-2.1$
*Nb^{95m}	90h	IT	$.23^{100}$	IT.23
*Nb^{95}	35d	$\beta^-.16^{99}$,$.93^{1}$	$.77^{99}$	$\beta^-.93$
*Nb^{96}	23h	$\beta^-.7^{92}$,$.4^{8}$	$.77^{100}$,$.56^{61}$, 1.08^{52},.22-1.19	$\beta^-3.1$
*Nb^{97m}	1.0m	IT,CE^{1}	$.75^{100}$	IT.75

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
*Nb^{97}	72m	$\beta 1.27^{99}$,-	$.67^{99}$,1.02^{1}	$\beta^- 1.94$
*Nb^{98}	26m	β^-		
*Nb^{99}	3m	$\beta^- 3.2$		
Nb^{100}	2.3s			
$_{42}Mo^{90}$	5.7h	EC,$\beta^+ 1.2$(CE)	($\gamma .25^{100}$,$.12^{100}$)	
Mo^{91m}	65s	IT^{60},$\beta^+ 2.5$-3.99, CE^{3}	$.65^{60}$,1.54^{22}, 1.21^{16}	$\beta^+ 5.11$,IT.65
Mo^{91}	15.6^{m}	$\beta^+ 3.44$	no γ	$\beta^+ 4.46$
Mo^{92m}	6.9h	IT,CE^{70}	1.48^{100},$.69^{100}$, $.26^{100}$	IT2.43
Mo^{93}	>2y	EC		EC.49
*Mo^{99}	67h	$\beta^- 1.23^{85}$,$.45^{14}$, -,CE	($\gamma .140^{89}$,$.002^{89}$, $.142^{9}$).74^{11},.041-.78	$\beta^- 1.37$
*Mo^{101}	14.6m	$\beta^- 2.23$,-(CE)	1.02^{25},$.59^{21}$ 2.08^{16},.08-1.66 (.19^{25})	$\beta^- 2.82$
*Mo^{102}	11m	$\beta^- 1.2(4)$		
*Mo^{105}	<2m	β^-		
$_{43}Tc^{92}$	4.3m	$\beta^+ 4.1$	1.3	
Tc^{93m}	44m	IT^{80},EC^{20},CE^{22}	$.39^{80}$,2.7^{20}	EC3.58,IT.39
Tc^{93}	2.7h	EC^{88},$\beta^+ .82^{10}$, $.64^{2}$	1.35^{63},1.48^{32}, 2.0^{10}	EC,$\beta^+ 3.19$
Tc^{94}	52m	$\beta^+ 2.41^{65}$,-, EC^{25}	$.87^{98}$,1.5^{24},1.8^{12}, 2.7^{1},3.3^{1}	β^+, EC4.30
Tc^{95m}	60d	EC^{96},IT^{4}, $\beta^+ .68^{0.1}$,-, CE	$.204^{78}$,$.58^{42}$, $.84^{32}$,.76-1.04, $.039^{4}$	EC,$\beta^+ 1.70$, IT.039
Tc^{95}	20h	EC	$.76^{85}$,1.07^{9},$.93^{6}$	EC1.6
Tc^{96m}	52m	IT^{100},$\beta^{+.01}$,CE	$.034^{100}$	IT.034
Tc^{96}	4.3d	EC	$.84^{100}$,$.80^{100}$, $.77^{100}$,1.12^{17},-	EC3.0
Tc^{97m}	90d	IT,CE	$.096^{100}$	IT.096
Tc^{97}	2.6×10^6y	EC		
Tc^{98}	2×10^6y	$\beta^-.3$	$.75^{100}$,$.66^{100}$	$\beta^- 1.7$
*Tc^{99m}	6.0h	IT,CE	$.140^{90}$,$.002^{90}$, $.142^{10}$	IT.142
*Tc^{99}	2.1×10^5y	$B^-.29$		$\beta^-.29$
Tc^{100}	16s	$\beta^- 3.4$,2.9	.60,.54,-	$\beta^- 3.4$
*Tc^{101}	14.0m	$\beta^- 1.32^{57}$,1.07^{6}, ...	$.31^{91}$,$.54^{5}$,.13-.94	$\beta^- 1.63$
Tc^{102}	4m	$\beta^- 2$	.47-2.0	
*Tc^{102}	5s	$\beta^- 4$		$\beta^- 4$
Tc^{103}	1.2m	$\beta^- 2.5$		
*Tc^{104}	18m	$\beta^- 2.4$	.31-.87	
*Tc^{105}	10m	β^-		
$_{44}Ru^{93}$	50s	β^+		
Ru^{94}	1h	EC	no γ	
Ru^{95}	99m	EC,$\beta^+ 1.2$,-	.34,1.1,.145,.64	EC,$\beta^+ 2.2$
Ru^{97}	2.9d	EC,CE	.22,.109-.57	
*Ru^{103}	40d	$\beta^-.21^{90}$,.1-.7 (CE^{95})	($\gamma .040^{98}$),.50, .61,.053-.56	$\beta^-.75$
*Ru^{105}	4.44h	$\beta^- 1.18$,1.12,- (CE^{75})	$.72^{100}$,.47,.21-.97(.130^{100})	$\beta^- 1.91$
*Ru^{106}	1.00y	$\beta^-.04^{100}$(3.53^{72}, -)	($\gamma .51^{20}$,$.62^{11}$, .87-2.66)	$\beta^-.04$
*Ru^{107}	4.8m	$\beta^- 2.4$	.22	
*Ru^{108}	4.4m	β^-		
$_{45}Rh^{96}$	11m			
Rh^{97}	35m	β^+		
Rh^{98}	8.7m	$\beta^+ 2.5$	.65	$\beta^+ 4.2$
Rh^{99m}	4.7h	EC,β^+.75,-	$.35^{70}$,$.61^{20}$,.89-1.41	EC,$\beta^+ 2.11$
Rh^{99}	15d	EC,$\beta^+ 1.03$,-	.35,.089	EC,$\beta^+ 2.05$
Rh^{100}	21h	EC,$\beta^+ 2.61$,2.07, -	.54,.44,.30-2.38	EC, $\beta^+ 3.63$
Rh^{101m}	4.7d	EC^{96},IT^{4},CE^{5}	$.31^{96}$,$.158^{4}$	IT0.158
Rh^{101}	5y	EC,CE^{70}	$.195^{100}$,$.127^{100}$	
Rh^{102}	210d	EC^{68},$\beta^- 1.15^{20}$, $\beta^+ 1.25^{10}$,-	.48,.63,1.09, .46-1.8	EC,$\beta^+ 2.27$, $\beta^- 1.15$
*Rh^{103m}	57m	IT,CE^{98}	$.040^{100}$	IT0.040
Rh^{104m}	4.4m	IT^{99+},$\beta^{-.1}$	$.077^{100}$,$.051^{100}$, .56-1.53	IT0.128
Rh^{104}	42s	$\beta^- 2.44^{89}$,1.88^{7}, -	$.56^{2}$,$1.24^{0.1}$	$\beta^- 2.44$
*Rh^{105m}	0.7m	IT,CE^{75}	$.130^{100}$	IT0.130
*Rh^{105}	35h	$\beta^-.56^{80}$,$.24^{20}$	$.32^{20}$,.108-.55	$\beta^- 0.56$
Rh^{106m}	2.2h	$\beta^-.7$	.22-2.3	
*Rh^{106}	30s	$\beta^- 3.53^{72}$,-	$.51^{20}$,$.62^{11}$,.87-2.66	$\beta^- 3.53$
*Rh^{107}	23m	$\beta^- 1.2$,-	.31,.39,.09-.68	
*Rh^{108}	18s	$\beta^- 4$	.43	
Rh^{110}	3.6s			
$_{46}Pd^{98}$	17m	β^+		
Pd^{99}	22m	$\beta^+ 2.0$,-	.14,.28,.42,.67	$\beta^+ 3.8$
Pd^{100}	4.0d	EC	.081	
Pd^{101}	8.5h	EC^{96},$\beta^+.58^{4}$	$.59^{15}$,$.29^{15}$,-	EC1.76

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
Pd^{103}	17d	EC(CE^{98})	$.30^{1}$,$.50^{1}$,.052-.36(.040^{100})	EC0.56
Pd^{105m}	37μs	IT	$.32^{100}$,$.18^{100}$	IT0.50
Pd^{107m}	22s	IT,CE^{20}	$.22^{100}$	IT0.22
*Pd^{107}	7×10^6y	$\beta^-.035^{100}$		$\beta^- 0.035$
Pd^{109m}	4.8m	IT,CE^{40}	$.18^{100}$	IT0.18
*Pd^{109}	13.6h	$\beta^- 1.0$(CE^{92})	.30,.07(.088^{100})	$\beta^- 1.1$
Pd^{111m}	5.5h	IT,CE	.17	IT0.17
*Pd^{111}	22m	$B^- 2.13$	(γ.07^{100})	$\beta^- 2.20$
*Pd^{112}	21.0h	$\beta^-.28$	.018	$\beta^+ 0.30$
*Pd^{113}	1.5m	β^-($\beta^- < 2^{10}$)	(γ31-.70)	
*Pd^{114}	2.4m	β^-	no γ	
*Pd^{115}	45s	β^-		
$_{47}Ag^{102}$	15m	EC,β^+		
Ag^{103}	1.0h	$\beta^+ 1.3$	.12,.15	
Ag^{104m}	27m	$\beta^+ 2.70$,IT	.56,.118	$\beta^+ 4.28$,IT0.118
Ag^{104}	69m	EC	.56,.76,.92	
Ag^{105}	40d	EC	.35,.28,.064-1.10 (.32,.18)	
Ag^{106}	8.3d	EC	.51,.22,.41,.62-2.6	
Ag^{106}	24m	$\beta^+ 1.96^{54}$,1.45^{7}, EC^{39}	$.51^{18}$	β^+, EC2.98,
Ag^{107m}	44s	IT,CE^{15}	$.094^{100}$	IT0.094
Ag^{108m}	≥5y	EC^{90},IT^{10}	$.72^{90}$,$.62^{90}$,$.43^{90}$, $.081^{10}$	IT0.081
Ag^{108}	2.3m	$\beta^- 1.77^{97}$,-, EC^{3},$\beta^{+0.1}$	$.63^{1}$,$.43^{0.9}$,-	$\beta^- 1.77$
Ag^{109m}	39s	IT,CE^{92}	$.088^{100}$	IT0.088
Ag^{110m}	253d	$\beta^-.086^{65}$,.54,.43, IT^{2}	$.66^{100}$,$.88^{90}$,.44-2,.116^{3}	IT0.116, $\beta^- 2.99$
Ag^{110}	24s	$\beta^- 2.87$,-	.66,-	$\beta^- 2.87$
*Ag^{111m}	74s	IT	$.07^{100}$	IT0.07
*Ag^{111}	7.5d	$\beta^- 1.05^{93}$,$.71^{6}$, -	.34,.247	$\beta^- 1.05$
*Ag^{112}	3.12h	$\beta^- 4.05$,3.44,-	.61,1.4,1.1-2.8	$\beta^- 4.05$
*Ag^{113m}	1.2m	IT^{99},$\beta^- < 2^{10}$	.31,.14,.39,.56..70	
*Ag^{113}	5.3h	$\beta^- 2.01$,-	.31	$\beta^- 2.01$
*Ag^{114}	5s	$\beta^+ 4.6$	.56	
*Ag^{115}	0.3m	β^+		
*Ag^{115}	21m	$\beta^- 2.9$	.23,.14	$\beta^- 2.9$
*Ag^{116}	2.5m	$\beta^- 5.0$	.52,.70	
*Ag^{117}	1.1m	β^-		
$_{48}Cd^{104}$	59m	EC($\beta^+ 2.70$),CE	.084,.067,.124, .134(.56,.118)	
Cd^{105}	55m	EC,$\beta^+ 1.69$	.31-.35,.43, .025-2.32	
Cd^{107}	6.7h	EC^{99+},$\beta^+.32^{0.3}$	$.85^{0.4}$(.$094^{0.4}$)	EC, $\beta^+ 1.43$
Cd^{109m}	12μs	IT	$.058^{100}$	IT0.058
Cd^{109}	1.3y	EC(CE^{92})	(γ.088^{100})	EC0.16
Cd^{111m}	49m	IT,CE^{60}	$.247^{100}$,$.150^{100}$	IT0.397
*Cd^{113m}	14y	$\beta^-.58^{99+}$,$IT^{0.1}$	.27	IT0.27,$\beta^- 0.58$
*Cd^{115m}	44d	$\beta^- 1.63^{97}$,$.69^{3}$, -	$.94^{3}$,1.29^{1},.48, 1.14	$\beta^- 1.63$
*Cd^{115}	2.3d	$\beta^- 1.11^{63}$,$.59^{25}$,	.52,.49,- (.335^{95})	$\beta^- 1.44$
*Cd^{117m}	2.9h	$\beta^- 1.0$,-	.27-2.25	
*Cd^{117}	50m	$\beta^- 1.8$	.42	$\beta^- 2.5$
*Cd^{118}	50m	β^-($\beta^- 4.2$)		
*Cd^{119m}	9m	β^-		
*Cd^{119}	3m	β^-		
$_{49}In^{107}$	33m	$\beta^+ 2$	.22	$\beta^+ 3$
In^{108m}	55m	EC^{61},$\beta^+ 1.4^{37}$, IT^{2},CE	.63,.88,1.05,.33, .25^{2}	IT0.52
In^{108}	40m	$\beta^+ 3.5^{90}$,EC^{10}	.63	β^+,EC5.1
In^{109m}	1.3m	IT,CE^{7}	$.66^{100}$	
In^{109}	4.3h	EC^{94},$\beta^+.80^{6}$, CE^{11}	.20,.63,.23-1.15(.058)	EC,$\beta^+ 2.02$
In^{110m}	5.0h	EC^{99+},$IT^{0.6}$,CE^{1}	$.66^{99}$,$.88^{99}$,$.93^{99}$, $.120^{0.6}$	IT0.120
In^{110}	66m	$\beta^+ 2.25^{70}$,EC^{30}	$.66^{100}$	β^+,EC3.93
In^{111m}	10m	IT	$.53^{100}$	IT0.53
In^{111}	2.81d	EC,CE^{15}	$.247^{100}$,$.173^{100}$(.150^{-01})	
In^{112m}	21m	IT	$.155^{100}$	IT0.155
In^{112}	14m	$\beta^-.66^{44}$,EC^{33}, $\beta^+ 1.52^{23}$	$.61^{7}$,-	ECβ^+,2.54, $\beta^- 0.66$
In^{113m}	1.73h	IT,CE^{30}	$.39^{100}$	IT0.39
$In^{114m\alpha}$	42ms	IT	$.31^{100}$	IT0.50
In^{114m}	50d	IT^{96},EC^{4},CE^{90}	$.192^{96}$,$.72^{4}$,$.56^{4}$	IT0.192
In^{114}	72s	$\beta^- 1.98^{99}$,-, EC^{1},$\beta^+.40^{.002}$	.130,0.2	EC,$\beta^+ 1.42$, $\beta^- 1.98$
*In^{115m}	4.5h	IT^{95},$\beta^-.84^{5}$, CE^{47}	$.335^{95}$	IT0.335,$\beta^- 0.84$
In^{115}	$6 \cdot 10^{14}$y	$\beta^-.6^{100}$		$\beta^- 0.6$
$In^{116m\alpha}$	2.5s	IT,CE^{50}	$.15^{100}$	IT0.21

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
In^{116m}	54.0m	$\beta^-1.00^{51},.85^{29},.60^{21}$	$1.27^{75},1.08^{54},2.09^{25},.41^{25},.137\text{-}1.49$	$\beta^-3.35$
In^{116}	14s	$\beta^-3.29^{100}$	no γ	$\beta^-3.29$
*In^{117m}	1.9h	$\beta^-1.77^{55},1.61^{23}$, IT^{22},CE^{16}	$.161^{22},.31^{22}$	IT0.31,$\beta^-1.77$
*In^{117}	1.1h	$\beta^-.74^{100}$	$.56^{100},.161^{100}$	$\beta^-1.46$
$In^{118?m}$	4.5m	$\beta^-1.5$		
*In^{118}	5s	$\beta^-4.2$		
In^{119}	18m	$\beta^-2.7$		
In^{120}	50s	$\beta^-2.2$	.73,.85,1.02,1.18	
$_{50}Sn^{108}$	9m	EC		
Sn^{109}	18m	$EC^{80},\beta^+1.6^{20}$	.112,.33,.52,.89,(.66)	
Sn^{110}	4.0h	$EC(\beta^+2.25^{70})$	$.283^{100},(.66^{100})$	
Sn^{111}	35m	$EC^{71},\beta^+1.51^{29}$		$EC,\beta^+2.52$
Sn^{113}	112d	$EC,(CE^{30})$	$.255^2(.39^{100})$	EC0.7
Sn^{117m}	214d	IT,CE	$.161^{100},.159^{100}$	IT0.320
Sn^{119m}	175d	IT,CE^{170}	$.065^{100},.024^{100}$	IT0.089
Sn^{120m}	1μs	IT,CE	$1.18^{100},1.04^{100},.199^{100},.089^{100}$	IT2.51
Sn^{121m}	>5y	$\beta^-.42$		
*Sn^{121}	27h	$\beta^-.38^{100}$	no γ	$\beta^-0.38$
*$Sn^{123?m}$	125d	$\beta^-1.42^{98},$-	1.08^2	$\beta^-1.42$
Sn^{123}	40m	$\beta^-1.26^{100}$	$.16^{100}$	$\beta^-1.42$
Sn^{125m}	9.7m	$\beta^-2.04^{98},$-	$.326^{99},1.39^2,$-	$\beta^-2.37$
*Sn^{125}	9.4d	$\beta^-2.35^{95},$-	$1.07^4,1.97^1,.23\text{-}1.41$	$\beta^-2.35$
*Sn^{126}	~10^5y	$\beta^-(.86,1.9,$-)	$.092,.07(.68,.42)$	
*Sn^{127}	2.0h	β^-		
*Sn^{128}	57m	$\beta^-(2.9)$	(.75,.32)	
*Sn^{130}	2.6m	β^-		
*Sn^{131}	3.4m	β^-		
*Sn^{132}	2.2m	β^-		
$_{51}Sb^{114}$	3.5m	$\beta^+4.0$		
Sb^{115}	32m	$\beta^+1.6$		
Sb^{116m}	60m	$\beta^+1.45,$-,EC	1.27,.90,.11-.41	
Sb^{116}	15m	$\beta^+,2.4,1.5,EC$	1.27,.90,2.2	$\beta^+,EC4.7$
Sb^{117}	2.8h	EC^{97},β^{+3}	.161	
Sb^{118m}	3.5m	$\beta^+3.1,IT$	1.22,.108	IT0.108
Sb^{118}	5.1h	EC,CE	$1.22^{100},1.03^{100},.26^{100},.04$	
Sb^{119}	38h	EC,CE^{86}	$.024^{100}$	EC0.58
Sb^{120m}	5.8d	EC	$(1.18^{100},1.04^{100},.199^{100},.089^{100})$	
Sb^{120}	16.4m	$\beta^+1.70,$-,EC	1.18	$\beta^+,EC2.72$
Sb^{122m}	3.5m	IT	$.075^{100},.061^{100}$	IT0.136
Sb^{122}	2.8d	$\beta^-1.40^{63},1.97^{30},$-,$EC^3$, $\beta^+.57^{-01}$	$.56^{66},.69^3,1.26,1,1.14^1$	EC, $\beta^+1.59$, $\beta^-1.97$
Sb^{124mm}	21m	IT,β^-3,CE	.018	$IT0.018,\beta^-3$
Sb^{124m}	1.3m	$IT,\beta^-3.2,CE$	.012	$IT0.012,\beta^-3.2$
Sb^{124}	60d	$\beta^-.61^{51},2.31^{23},.22^{11},$-	$.60^{98},1.69^{46},.72^{10},2.09^7,.63\text{-}2.3$	$\beta^-2.91$
*Sb^{125}	2.0y	$\beta^-.30^{45},.12^{29},.61^{44},$-	$.43,.60,.035\text{-}.64(.110,.035)$	$\beta^-0.75$
*$Sb^{126?m}$	6d	$\beta^-.86$	$.68,.42,.56\text{-}1.35$	
*Sb^{126}	19m	$\beta^-1.9,.5$	$.68,.42$	
*Sb^{127}	3.7d	$\beta^-1.13^{35},1.50^{20},$-$(.70^{77},$-)	$.46,.77,.24,.060\text{-}.31(.42,$-)	$\beta^-1.59$
*$Sb^{128?m}$	10m	$\beta^-2.9$	$.75,.32$	
*Sb^{128}	9.6h	$\beta^-1.0$	$.75,.32,.90$	
*Sb^{129}	4.6h	$\beta^-1.87^{20},$-$(1.45^{46},1.00^{10},$-)	$.53,.165,.31,.79(.027\text{-}1.12)$	
*$Sb^{130?m}$	7m			
*Sb^{130}	33m			
*Sb^{131}	23m	β^-		
*Sb^{132}	2.1m	β^-		
*Sb^{133}	4.2m	β^-		
*Sb^{134}	0.8m	β^-		
*Sb^{135}	<0.4m	β^-		
$_{52}Te^{114}$	16m	$\beta^+(4.0)$		
Te^{116}	~3h	$(\beta^+2.4,$-)	(1.27,.90,2.2)	
Te^{117}	2.5h	$\beta^+2.5$		
Te^{118}	6.0d	$EC(\beta^+3.1)$	(1.22,.108)	
$Te^{119?m}$	4.5d	EC,IT(?)(CE)	1.6,.2(.024)	
Te^{119}	16h	EC,CE	.56	
Te^{121m}	150d	IT,CE^{108}	$.213^{100},.082^{100}$	IT.295
Te^{121}	17d	EC	$.57^{87},.51^{13},.07^2$	
Te^{123m}	104d	IT,CE^{120}	$.159^{100},.089^{100}$	IT.248
*Te^{125m}	58d	IT	$.035^{100},.110^{100}$	IT.145
*Te^{127m}	105d	IT,β^{-2}	$.089^{100},.059^2,.66$	IT.089
*Te^{127}	9.3h	$\beta^-.70^{99},$-	$.42^{0.8},.058\text{-}.215$	$\beta^-.70$
*Te^{129m}	33d	IT,CE^{95}	$.106^{100}$	IT.106
*Te^{129}	1.1h	$\beta^-1.45^{71},1.00^{15},$-	$.027^{86},.47^9,.21\text{-}1.12$	$\beta^-1.48$
*Te^{131m}	1.2d	$\beta^-.42^{52},.57\text{-}2.47,IT^{22},CE$	$.77,.147,1.12,.182^{22},.10\text{-}1.63$	$\beta^-2.47$
*Te^{131}	25m	$\beta^-2.14^{60},1.69^{25},$-	$.147^{94},.45^{23},1.12^8,.60^6,.95^4$	$\beta^-2.29$
*Te^{132}	78h	$\beta^-.22^{60},$-$(1.53\text{-}2.12)CE^{90}$	$.23^{100},.053^{100}(^{67},.78,.53\text{-}2.5)$	$\beta^-.50$
*Te^{133m}	1h	$\beta^-1.3,2.4,IT^{13}$	$.334^{13},.6,1.0$	
*Te^{133}	2m	$\beta^-1.3,2.4$	$.6,1.0,.4$	
*Te^{134}	44m	β^-		
$_{53}I^{118}$	10m			
I^{119}	18m	β^+		
I^{120}	1.4h	$\beta^+4.0$		
I^{121}	1.4h	$EC^{90},\beta^+1.13^{10}$	$.213^{100},.327,.27^3$	
I^{122}	3.5m	$\beta^+3.12$		$\beta^+4.14$
I^{123}	13h	EC	$.159^{100},.53^2,.27$	
I^{124}	4.5d	$EC^{72},\beta^+2.13^{13},1.53^{13},$-	$.60^{62},.72^{11},1.70^8,1.33\text{-}2.70$	EC, $\beta^+3.15$
I^{125}	60d	EC	$.035^{100}$	EC.15
$I^{126?m}$	2.6h			
I^{126}	13.3d	$EC^{55},\beta^-.38\text{-}1.25^{44},\beta^+1.11^1,$-	$.39^{36},65^{33},.48^5,.75^4,.86\text{-}1.42$	EC, $\beta^+2.13$, $\beta^-1.25$
I^{128}	25.0m	$\beta^-2.12^{76},1.67^{16},$-,$EC^6$	$.45^{17},.54^2,.99^{0.5},.75^{0.3}$	$\beta^-2.12$
*I^{129}	1.6 · 10^7y	$\beta^-.15^{100},CE^{90}$	$.040^{100}$	$\beta^-.19$
I^{130}	12.5h	$\beta^-.60^{54},1.02^{46}$	$.66^{100},.53^{100},.74^{70},1.15^{30},.41^{24}$	$\beta^-2.95$
*I^{131}	8.05d	$\beta^-.61^{87},.25\text{-}.81$	$.364^{82},.64^8,.284^6,.080\text{-}.72$	$\beta^-.97$
*I^{132}	2.3h	$\beta^-1.53^{24},1.16^{23},2.12^{18},$-	$.67^{100},.78^{80},.53^{30},.96^{20},.62\text{-}2.5$	$\beta^-3.57$
*I^{133}	21h	$\beta^-1.4^{94},$-	$.53^{94},.85^5,1.4^1$	$\beta^-1.9$
*I^{134}	53m	$\beta^-1.5^{70},2.5^{30}$	$.86,1.1,.12\text{-}2.5$	
*I^{135}	6.7h	$\beta^-1.4,$-	$1.14^{37},1.28^{34},1.80^{11},.42\text{-}2.4(.53)$	
*I^{136}	86s	$\beta^-2.7\text{-}7.0$	$1.32,.39,.27,2.4,.20\text{-}3.2$	$\beta^-7.0$
*I^{137}	24s	$\beta^-(n.6)$		
*I^{138}	6s	$\beta^-(n)$		
*I^{139}	2s	$\beta^-(n)$		
$_{54}Xe^{121}$	40m	$\beta^+2.8$	$.096,.080,.132,.44$	
Xe^{122}	19h	$EC,\beta^+3.12$	$.148,.090,.187,.238$	
Xe^{123}	1.8h	$EC,\beta^+1.50$	$.149,.178,.328$	
Xe^{125m}	60s	IT	$.111,.075$	IT.186
Xe^{125}	18h	EC	$.187,.056,.243,.096\text{-}.46$	
Xe^{127m}	75s	IT	$.175^{100},.125^{100}$	IT.300
Xe^{127}	13.4d	EC	$.203,.170,.145,.058$	
Xe^{129m}	8d	IT,CE	$.196^{100},.040^{100}$	IT.236
*Xe^{131m}	12d	IT,CE^{98}	$.164^{100}$	IT.164
*Xe^{133m}	2.3d	IT,CE^{90}	$.233^{100}$	IT .233
*Xe^{133}	5.27d	$\beta^-.35^{99},$-,CE^{60}	$.081^{100},.160^{0.1},.30,.38$	$\beta^-.43$
*Xe^{135m}	15.6m	IT,CE^{15}	.53	IT.53
*Xe^{135}	9.2h	$\beta^-.91^{97},.55^3$	$.250^{97},.61^3,.36^{0.1}$	$\beta^-1.16$
*Xe^{137}	3.9m	$\beta^-3.5$		
*Xe^{138}	17m	$\beta^-2.4$	$.42,1.78,.51,2.01$	
*Xe^{139}	41s	β^-		
*Xe^{140}	16s	β^-		
*Xe^{141}	2s	β^-		
*Xe^{143}	1s	β^-		
*Xe^{144}	1s	β^-		
$_{55}Cs^{123}$	6m	β^+		
Cs^{125}	45m	$\beta^+2.05^{50},EC^{50}$	.111	$\beta^+,EC3.07$
Cs^{126}	1.6m	$\beta^+3.8,$-^{82}, EC^{18}	$.39^{38}$	
Cs^{127}	6.2h	$EC^{94},\beta^+.68^3,1.06,$-	$.41,.125,.286,.17\text{-}.44$	$EC,\beta^+2.08$
Cs^{128}	3m	$\beta^+3.0^{50},2.5^{20},$-,$EC^{24}$	$.135^{60},.45^{20},.98,1.5$	$\beta^+,EC4.0$
Cs^{129}	31h	EC,CE	$.040,.39,.37,.58,.092\text{-}.54$	
Cs^{130}	30m	$EC^{52},\beta^+1.97^{46},\beta^-.44^2$		$EC,\beta^+2.99,\beta^-.44$
Cs^{131}	9.7d	EC	no γ	EC.35
Cs^{132}	6.2d	EC	$.67^{98},1.26^{0.8},1.10^{0.7},$-	
Cs^{134m}	3.1h	$IT^{99},\beta^-.55^1,CE^{170}$	$.127,.010,.137$	IT.137
Cs^{134}	2.2y	$\beta^-.65^{75},.09^{20},.21\text{-}1.45$	$.60^{97},.80^{94},.57^{13},.20\text{-}1.37$	$\beta^-2.05$
*Cs^{135}	2.0 · 10^6y	$\beta^-.21^{100}$	no γ	$\beta^-.21$
Cs^{136}	13d	$\beta^-.34^{93},.66^7$	$.82,1.04,.065\text{-}2.5$	
*Cs^{137}	30y	$\beta^-.51^{92},1.17^8(CE^{10})$	$(.662^{92})$	$\beta^-1.17$

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
*Cs^{138}	32.2m	$\beta^-3.40^{21}$,-	1.43^{73},1.01^{25}, .46^{23},2.21^{18}, .113-3.34	$\beta^-4.83$
*Cs^{139}	9.5m	$\beta^-4.3$		$\beta^-4.3$
*Cs^{140}	66s	β^-		
*Cs^{141}	short	β^-		
*Cs^{142}	~1m	β^-		
*Cs^{143}	short	β^-		
*Cs^{144}	short	β^-		
$_{56}Ba^{126}$	97m	EC	.23,.70,.9	
Ba^{127}	12m	β^+		
Ba^{128}	2.4d	EC($\beta^+3.0^{50}$,-)	.27^{20}(.135^{60}, .45^{20},-)	
Ba^{129}	2.4h	EC,$\beta^+1.6^{20}$	.18,.21,1.45,.127	
Ba^{131}	11.6d	EC	.50,.122,.216, .37,.055-1.04	
Ba^{133m}	39h	IT,CE^{175}	.276^{100},.012^{100}	IT.288
Ba^{133}	8y	EC	.081,.36,.30, .079-.38	
Ba^{135m}	29h	IT,CE^{80}	.268^{100}	IT.268
*Ba^{137m}	2.6m	IT,CE^{11}	.662^{100}	.662
*Ba^{139}	85m	$\beta^-2.38$,-	.166^{20},1.43	$\beta^-2.38$
*Ba^{140}	12.8d	$\beta^-1.02^{60}$,- (2.20^7,-)	.030,.54^{25},12-44 (1.60^{88},.06-2.9)	$\beta^-1.05$
*Ba^{141}	18m	$\beta^-2.9$	.19,.29,.46,.35, .12-.74	
*Ba^{142}	11m	β^-4	.26,.89,1.20, .080,.97-1.68	
*Ba^{143}	<30s	β^-		
*Ba^{144}	short	β^-		
$_{57}La^{131}$	61m	EC^{72},$\beta^+1.42^{16}$, 1.94^8,-	.115^{23},.36^{20}, .42^{20},.28^{17},.169-.88	
La^{132}	4.5h	$\beta^+3.8$	1.0	
La^{133}	4.0h	EC,$\beta^+1.2$	.8	
La^{134}	6.5m	EC^{56},$\beta^+2.7^{44}$		EC,$\beta^+3.7$
La^{135}	19.8h	EC^{99+},$\beta^{+0.1}$	.104-.86	
La^{136}	9.5m	EC^{67},$\beta^+1.8^{33}$		
La^{137}	$6 \cdot 10^4$y	EC		
La^{138}	$1.1 \cdot 10^{11}$y	EC^{70},$\beta^-.20^{30}$	1.43^{70},$.81^{30}$	$\beta^-1.01$
*La^{140}	40.2h	$\beta^-2.20^7$,-	1.60^{88},.49^{44}, .81^{40},.33^{35},.065-2.9	$\beta^-3.80$
*La^{141}	3.8h	$\beta^-2.5$,-	1.37^3	$\beta^-2.5$
*La^{142}	1.4h	$\beta^-4.4(4)$	.64^{55},.90^{12}, 2.40^{11},1.03-3.65 (.26,-)	$\beta^-4.4$
*La^{143}	19m	β^-		
*La^{144}	short	β^-		
$_{58}Ce^{131}$	30m	$\beta^+4.2$		
Ce^{132}	4.2h	β^+		
Ce^{133}	6.3h	EC,$\beta^+1.3(1.2)$	1.8(.8)	
Ce^{134}	72h	EC	no γ	
Ce^{135}	22h	EC^{99+},$\beta^+.81^{<1}$	(.104-.86)	
Ce^{137m}	34h	IT,CE^{90}	.255	IT.255
Ce^{137}	9h	EC,CE^{99}	.010^{100},.44^3	
Ce^{139m}	55s	IT,CE^8	.74^{100}	IT.74
Ce^{139}	140d	EC,CE^{20}	.166^{100}	
*Ce^{141}	32.5d	$\beta^-.43^{70}$,.58^{30}, CE^{20}	.146^{70}	$\beta^-.58$
*Ce^{142}	$5 \cdot 10^{15}$y	$\alpha 1.5$		
*Ce^{143}	33h	$\beta^-1.09^{40}$,1.38^{27}, -CE	.057^{80},.29^{43},.66^{10}, .72^8,.23-1.10	$\beta^-1.44$
*Ce^{144}	285d	$\beta^-.32^{72}$,.19^{20},- (2.98^{98},-)	.134,.080,.034, .100(.$69^{1.6}$,$2.18^{0.8}$,-)	$\beta^-.32$
*Ce^{145}	3.0m	$\beta^-2.0$		
*Ce^{146}	14m	$\beta^-.7$	.32,.22,.14,.11, .05-.27	$\beta^-1.0$
*Ce^{148}	1.2m	β^-		
$_{59}Pr^{135}$	22m	$\beta^+2.5$	.22,.08,.30	
Pr^{136}	70m	$\beta^+2.0$	.17,.8,1.1	
Pr^{137}	1.5h	EC^{83},$\beta^+1.8^{17}$		EC,$\beta^+2.8$
Pr^{138}	2.0h	EC^{90},$\beta^+1.4^{10}$	.30,.80,1.05,1.4-1.7	
Pr^{139}	4.5h	EC^{94},$\beta^+1.0^6$	1.3,1.6	
Pr^{140}	3.4m	EC,$\beta^+2.23$		EC,$\beta^+3.25$
Pr^{142}	19.2h	$\beta^-2.15^{98}$,.58^4	1.57^4	$\beta^-2.15$
*Pr^{143}	13.7d	$\beta^-.93^{100}$	no γ	$\beta^-.93$
*Pr^{144}	17.3m	$\beta^-2.98^{98}$,-	.$69^{1.6}$,$2.18^{0.8}$, $1.49^{0.3}$	$\beta^-2.98$
*Pr^{145}	5.98h	$\beta^-1.80$	.072,.92,1.04,1.15, .34-.97	$\beta^-1.80$
*Pr^{146}	24m	$\beta^-3.7^{56}$,2.3^{44}	.46,1.49,.75,-	$\beta^-4.2$
Pr^{148}	12m	β^-		
$_{60}Nd^{138}$	22m	$\beta^+2.4$		
Nd^{139}	5.5h	EC^{90},$\beta^+3.1^{10}$ (1.0^6)	1.3^9	EC,$\beta^+4.1$
Nd^{140}	3.3d	EC($\beta^+2.23$)	.11,.19,.26-.32,.5	
Nd^{141m}	64s	IT	.76	IT.76
Nd^{141}	2.4h	EC^{95},$\beta^+.78^5$	1.15^2,.145,1.30,.88,.42	

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
*Nd^{144}	$2.1 \cdot 10^{15}$y	$\alpha 1.9$		
*Nd^{147}	11.1d	$\beta^-.81^{77}$,.37^{20},-	.091^{29},.53^{15},.120-.69	$\beta^-.90$
*Nd^{149}	2.0h	$\beta^-1.5$,-	.114,.210,.112, .030-.65	
*Nd^{151}	15m	$\beta^-1.93$,-	.117,.256,.43,1.12, .085-2.17	
$_{61}Pm^{141}$	20m	$\beta^+2.6$		
Pm^{142}	34s	$\beta^+3.8^{49}$,EC^{21}	$1.59^{0.2}$	
Pm^{143}	~300d	EC	.74^{45}	
Pm^{144}	~400d	EC	.70^{100},.61^{100},.47^{45}	
$Pm^{145?m}$	16d	$\beta^+.45$		
Pm^{145}	18y	EC,CE^{16}	.068^{12},.073^8	
Pm^{146}	~2y	$\beta^-.7$		$\beta^-.7$
*Pm^{147}	2.6y	$\beta^-.23$	$.121^{.01}$	$\beta^-.23$
$Pm^{148?m}$	42d	$\beta^-2.33^{20}$,-	.63,.56,.72,1.02, .085-1.76	
Pm^{148}	5d	$\beta^-2.33$	.56,.91,1.46	
*Pm^{149}	53d	$\beta^-1.07^{90}$,.79^{10}	.285,.58,.84	$\beta^-1.07$
Pm^{150}	2.7h	$\beta^-2.0^{80}$,3.0^{20}	.34,.82,.43,1.33,.51-2.75	
*Pm^{151}	28h	$\beta^-1.1$	.34,.17,.28,.065,.07-1.5	
Pm^{152}	6m	$\beta^-2.2$	.122,.24,1	
Pm^{154}	2.5m	β^-		
$_{62}Sm^{141}$	20d	EC($\beta^+2.6$)	(γ)	
Sm^{142}	72m	EC^{90},$\beta^+1.0^{10}$ (3.8^{89})	(1.$59^{0.2}$)	
Sm^{143m}	2.3m	IT	.68	IT.68
Sm^{143}	9.0m	$\beta^+2.5$		$\beta^+3.5$
Sm^{145}	1y	EC,CE^{78}	.061^{92},.48,.003	
Sm^{146}	$5 \cdot 10^7$y	$\alpha 2.5$		
*Sm^{147}	$1.2 \cdot 10^{11}$y	$\alpha 2.20$		
*Sm^{151}	90y	$\beta^-.076$	.020	$\beta^-.076$
*Sm^{153}	46.2h	$\beta^-.65^{40}$,.72^{38}, .82^{22},-	.103^{78},.070^{40},.08-.60	$\beta^-.82$
*Sm^{155}	22m	$\beta^-1.65^{98}$,1.50^5, -	.104^{96},.246^4,.142^1, -	$\beta^-1.75$
*Sm^{156}	10h	$\beta^-.9$		
Sm^{157}	0.5m	β^-	.57	
$_{63}Eu^{144}$	18m	$\beta^+2.4$		
Eu^{145}	5d	EC,CE	.89^{60},.64^{24},.53^3	
$Eu^{146?m}$	38h	EC,CE	.035,.16,.24	
Eu^{146}	4.4d	EC	.74,.63	
Eu^{147}	24d	EC,$\alpha 2.9^{100}$,CE	.121,.077,.198,.60-.80	
Eu^{148}	54d	EC	.56,1.0	
Eu^{149}	120d	EC	.121,.30,.57,.038-.28	
Eu^{150}	14h	$\beta^-1.07^{100}$		$\beta^-1.07$
Eu^{152m}	9.3h	$\beta^-1.87^{74}$,-, EC^{21},$\beta^+.90^{.01}$	.56^{24},.122^{13}, .84^{11},.96^9,.34-1.39	EC,$\beta^+1.92$, $\beta^-1.87$
Eu^{152}	13y	EC,$\beta^-1.47$,-^{26}, $\beta^+.72^{.02}$	.122^{62},.34^{26}, 1.41^{28},1.11^{13}, .24-1.24	EC,$\beta^+1.86$, $\beta^-1.81$
Eu^{154}	16y	$\beta^-.15$-1.84,CE53	.123^{38},1.28^{42},.72^{21}, 1.01^{17},.25-1.61	$\beta^-1.96$
*Eu^{155}	1.7y	$\beta^-.15^{80}$,.25^{20}	.086,.105,.019, .060,.026-.137	$\beta^-.25$
*Eu^{156}	15d	$\beta^-2.45^{40}$,-CE	.089,2.0,.199-2.20	$\beta^-2.45$
*Eu^{157}	15h	$\beta^-1.0^{75}$,1.7^{25}	.6,.2	
*Eu^{158}	60m	$\beta^-2.6$		
Eu^{159}	20m	β^-		
$_{64}Gd^{145}$	25m	EC^{55},$\beta^+2.4^{45}$	1.75^{90},1.04^9,.80^5	
Gd^{146}	46d	EC	.1148^{100},.1155^{100}, .155^{100}(.035,.16,.24)	
Gd^{147}	1.5d	EC	.229,.40,.90,.77, .136-1.33	
Gd^{148}	~130y	$\alpha 3.2^{100}$		
Gd^{149}	9d	EC,$\alpha 3.0^{.001}$	.150,.30,.35,.52, .107-.94	
Gd^{150}	$\sim 3 \cdot 10^6$y	$\alpha 2.7^{100}$		
Gd^{151}	120d	EC,CE	.022,.175,.154,.24, .08-.35	
Gd^{153}	236d	EC,CE	.103,.097,.069	EC.22
*Gd^{159}	18h	$\beta^-.95^{74}$,.59^{20}	.36^{19},.058,.30,.080 .22	$\beta^-.95$
Gd^{161}	3.7m	$\beta^-1.60^{91}$,-	.057,.36,.32,.102, .078-.53	$\beta^-2.02$
Gd^{162}	>1y	β^-	.041,.117,.34,.24-1.39	
$_{65}Tb^{147}$	24m	β^+	.30,.14	
Tb^{148}	70m	EC,β^+	.78,1.12	
Tb^{149}	4.1h	EC^{90},$\alpha 4.0^{10}$	.17,.23,.36,.64	
Tb^{150}	3.1h	EC	.64,.51,.93	
Tb^{151}	18h	EC^{99+},$\alpha 3.4^{.0002}$	.108,.60,.29,.25, .180-.87	
$Tb^{152?m}$	4m	EC,β^+,$\alpha^{.002}$	.23,.14	
Tb^{152}	17h	EC	.34,.27,.58,1.32, .41-2.7	

Nuclide	*T½*	*Particle energies*	*γ energies*	*E_{decay}*
Tb^{153}	2.3d	EC	.088,.212,.110,.170, .041-.81	
$Tb^{154?m}$	8h	EC	.123,.25,.180,.35, .30-.65	
Tb^{154}	21h	$EC^{99+}, \beta^{+}2.7_{-0.5}$,	.123,.25,.180,.35, .30-.65	
Tb^{155}	5.6d	EC	.085,.105,.155,.26, .019-.37	
Tb^{156m}	5h	IT	$.088^{100}$	IT.088
Tb^{156}	5.1d	EC	$.089^{90}$,$.53^{76}$,$.199^{48}$, 1.22^{24},.112-2.0	
Tb^{158m}	11s	IT,CE^{98}	$.111^{100}$	IT.111
Tb^{160}	73d	$\beta^{-}.56^{40}$,.3-1.71, CE	.087,.88,.30,.97, .064-1.52	$\beta^{-}1.80$
*Tb^{161}	7.1d	$\beta^{-}.54^{60}$,.21-.61, CE	.049,.026,.075, .020-.27	$\beta^{-}.61$
Tb^{162}	2h			
Tb^{163}	7m		.18	
$_{66}Dy^{149}$	~15m	EC		
Dy^{150}	8m	α4.2	.39	
Dy^{151}	19m	$\alpha 4.1, \beta^{+}$	.145	
Dy^{152}	2.5h	$\beta^{+}\alpha 3.7^{\cdot 02}$	.255	
Dy^{153}	5h	EC,α3.5		
Dy^{154}	13h	EC,α3.4		
Dy^{155}	9h	EC	.227,.065,.090,.156, .161-.271	
Dy^{157}	8.2h	EC	.327,.083,.061,.144, .182-.266	
Dy^{159}	144d	EC	$.058^{25}$,$.36^{\cdot 01}$,.29,.20	
Dy^{165m}	75s	$IT^{97}, \beta^{-}.87^{3}$	$.108^{97}$,$.36^{3}$,.16,.52	
Dy^{165}	2.3h	$\beta^{-}1.28^{84}$,1.19^{13}, -	.095,.36,.63,.71, .044-1.07	$\beta^{-}1.28$
Dy^{166}	82h	$\beta^{-}.22$	.054,.028,.082	$\beta^{-}.22$
Dy^{167}	4.4m			
$_{67}Ho^{(<157)}$	4m	α4.2		
Ho^{156}	1h		.138	
Ho^{159}	33m			
Ho^{160m}	5.3h	IT^{66},EC^{34},CE	.060,.107-2.76	IT.060
Ho^{160}	28m	$EC^{99+}, \beta^{+}.57^{0.28}$, .30-1.90	.73,.97,.65,.197, .107-2.76	
Ho^{161}	2.5h	EC,CE	.026,.078,.075,.103, .044-.176	
Ho^{162}	67m	CE	.081,.038,.185,.058, .283	
Ho^{163m}	0.8s	IT,CE^{15}	.30	IT.30
Ho^{163}	>20y			
Ho^{164}	37m	$\beta^{-}.99,\ldots^{53}$,EC^{47}	.037,.091,.073	$\beta^{-}.99$
Ho^{166m}	>30y	$\beta^{-}.18^{46}$,$.28^{46}$,1.1^{8}	.080,.82,.72,.184, .28-.53	$\beta^{-}2.1$
Ho^{166}	27.2h	$\beta^{-}1.84^{51}$,1.76^{49}, -	$.080^{49}$,1.38^{1},1.58, 1.66	$\beta^{-}1.84$
Ho^{167}	3h	$\beta^{-}1.0$,-	$.35^{18}$,$.70^{6}$	$\beta^{-}1.0$
Ho^{168}	3m		.85	
Ho^{169}	1.6h	β^{-}		
Ho^{170}	40s			
$_{68}Er^{160}$	29h	$EC(\beta^{+}.30\text{-}1.90)$	no γ(.73,.97,.107-2.76)	
Er^{161}	3.0h	$EC, \beta^{+}1.21$	.067,.211,.83,1.12	
Er^{163}	1.2h	EC	.43,1.1	
Er^{165}	10h	EC	no γ	
Er^{167m}	2.5s	IT,CE^{61}	.208	IT.208
Er^{169}	9.4d	$\beta^{-}.34$,CE^{42}	$.008^{42}$	$\beta^{-}.34$
Er^{171}	7.5h	$\beta^{-}1.05$,.5-1.48	.112,.124,.005-.92	
Er^{172}	50h	β^{-}		
$_{69}Tm^{161}$	30m	EC	.084,.147,.172,.144	
Tm^{163}	2h	EC	.104,.242,.069,.240, .022-.66	
Tm^{165}	29h	EC,CE	.054,.243,.047,.077, .015-1.38	
Tm^{166}	7.7h	$EC^{99+}, \beta^{+}2.1^{0.4}$	.080,.184,.155-1.7	
Tm^{167}	9.6d	$EC(CE^{60})$	$.057^{33}$,$.53^{1}$,$(.208^{99})$	
Tm^{168}	85d	EC	.82,.20,.72,.18,.080-1.64	
Tm^{170}	129d	$\beta^{-}.96^{78}$,$.88^{22}$	.084	$\beta^{-}.96$
Tm^{171}	1.9y	$\beta^{-}.098^{98}$,-	$.067^{2}$	$\beta^{-}.098$
Tm^{172}	64h	$\beta^{-}1.5$	$.079^{100}$,1.09,1.44, 1.79,.18,.40	
Tm^{174}	5.5m			
$_{70}Yb^{165}$	1.7h	$\beta^{+}2.7$		
Yb^{166}	54h	$EC(\beta^{+}2.1^{0.4})$	.112,.140,(.080,.184, .155-1.7)	
Yb^{167}	18m	EC	.106,.113,.063, .026-.176	
Yb^{169m}	50s	IT,CE	.024	IT.024
Yb^{169}	32d	EC,CE	.008,.109,.198,.177, .021-.309	
Yb^{175}	4.2d	$\beta^{-}.47^{80}$,-	.396,.114,.282, .138-.251	$\beta^{-}.47$
Yb^{177}	1.9h	$\beta^{-}1.40^{87}$,-CE	.147,.118,.109,1.24, .14-1.12	
$_{71}Lu^{167}$	54m	EC	.030,.239,.213,.056-.40(.106,...)	
Lu^{168}	7m	EC	$.087^{59}$,$.99^{13}$,$.90^{10}$, 1.41-2.13	
Lu^{169}	1.5d	EC	.087,.024,.063,.110, .070-1.39	
Lu^{170}	2.0d	$EC, \beta^{+}2.4$,CE	.084,.194,.153-3.02	
$Lu^{171?m}$	8.3d	EC	.74,.076,.067,.67, .019-.84	
Lu^{171}	1.6y	EC,CE	1	
Lu^{172}	6.7d	EC	$.079^{100}$,1.09^{61},$.90^{34}$, $.091^{24}$,.056-1.58	
Lu^{173}	1.4y	EC	.079,.101,.273,.171	
Lu^{174mm}	75μs	IT,CE^{40}	.133	IT.133
Lu^{174m}	165d	IT,EC,CE	$.077^{59}$,1.23^{10},.059, .067,.045-.99	
Lu^{174}	short	EC		
Lu^{176m}	3.7h	$\beta^{-}1.2$,1.1	.089	$\beta^{-}1.2$
Lu^{176}	$2.2 \cdot 10^{10}$y	$\beta^{-}.42^{100}$	$.31^{100}$,$.20^{100}$,$.088^{100}$	$\beta^{-}1.02$
Lu^{177}	6.8d	$\beta^{-}.50^{90}$,-	.208,.113,.072-.321	
Lu^{178}	22m	β^{-}	.33,.44,.56,.67,.78	
Lu^{179}	8h	β^{-}		
$_{72}Hf^{169}$	1.9h	$\beta^{+}2.4$		$\beta^{+}3.4$
Hf^{171}	16h	EC	.17,.29,.63,1.02,1.4	
Hf^{172}	~5y	EC	.123,.080,...	
Hf^{173}	24h	EC	.140,.124,.135,.298, .163-1.02	
Hf^{175}	70d	EC	.343,.089,.43,.113-.32	
Hf^{178m}	5s	IT,CE	.427,.326,.214, .093,.089	IT1.15
Hf^{179m}	19s	IT,CE	$.217^{100}$,$.161^{100}$	IT.378
Hf^{180m}	5.5h	IT,CE^{126}	$.332^{100}$,$.216^{100}$, $.093^{100}$,$.44^{83}$,$.058^{83}$,$.50^{17}$	IT1.14
Hf^{181}	45d	$\beta^{-}.41$,CE	.137,.004(.133, .346,.482,.615)	$\beta^{-}1.02$
Hf^{183}	1.1h	$\beta^{-}1.4$		
$_{73}Ta^{172}$	0.5h	β^{+}		
Ta^{173}	2.5h	EC	.070,.082,.172,.037-.181	
Ta^{174}	1.3h	β^{+}	.091,.125,.16,.20, .28,.35	
Ta^{175}	11h	EC,CE^{9}	$.082^{48}$,$.207^{17}$,$.267^{13}$, $.104^{11}$,.186-1.15	
Ta^{176}	8.0h	EC	.088,.202,1.16,1.22, .100-2.08	
Ta^{177}	2.5d	CE^{13}	$.113^{30}$,$.208^{2}$,$1.06^{0.5}$, $.75^{0.4}$,.137-.95	
$Ta^{178?m}$	9.3m	$EC^{98}, \beta^{+}.88^{2}$	.093,1.35	
Ta^{178}	2.1h	$EC^{98}, \beta^{+}1^{2}$	.332(.427,.326,.214, .093,.089)	
Ta^{179}	1.6y	EC		EC0.09
Ta^{180m}	8.1h	$EC^{83}, \beta^{-}.70^{8}$, $.60^{9}$,CE^{37}	$.093^{41}$,$.102^{9}$	
Ta^{181mm}	20μs	IT,CE	.133,.346,.136, .482,.615	IT.615
Ta^{181m}	0.33s	IT	<.02	
Ta^{182m}	16m	IT	.184,.147,.172, .319,.356	IT.50
Ta^{182}	115d	$\beta^{-}.51^{8}$,-	$.100^{56}$,1.12^{33}, 1.22^{28},1.19^{16},.033-1.61	$\beta^{-}1.73$
Ta^{183}	5.0d	$\beta^{-}.61^{91}$,-	$.046^{58}$,$.053^{48}$, $.108^{44}$,$.246^{28}$,.041-.41	$\beta^{-}1.07$
Ta^{184}	8.7h	$\beta^{-}1.26^{72}$,-	$.40^{80}$,$.111^{62}$,$.24^{32}$, 1.18^{30},.16-.89	$\beta^{-}2.67$
Ta^{185}	48m	$\beta^{-}1.72^{95}$,-	$.175^{65}$,$.10^{35}$,$.075^{28}$, .11-.24	$\beta^{-}1.90$
Ta^{186}	10m	$\beta^{-}2.2^{100}$	.123,.20,.73,.61, .30-1.1	
$_{74}W^{176}$	1.7h	$EC, \beta^{+}2$,CE	1.3,-	
W^{177}	2.2h	EC	.5,1.2	
W^{178}	22d	$EC(\beta^{+}.88^{2})$	(.093,1.35)	
W^{179m}	5m	IT	.222	IT.222
W^{179}	30m	EC	.031	
W^{180m}	5ms	IT	.35,.5,.22	
W^{181m}	14μs	IT	.366	IT.366
W^{181}	145d	EC	$.152^{0.2}$,$.136^{0.1}$	
W^{183m}	5.5s	IT	.060,.105,.155	
W^{185m}	1.7m	IT	.175,.125,.10,.075	
W^{185}	74d	$\beta^{-}.43$	$.125^{\cdot 02}$	$\beta^{-}.43$
W^{187}	24.0h	$\beta^{-}.63^{70}$,1.31^{20}, -	.69,.48,.134,.072, .106-.87	$\beta^{-}1.31$
W^{188}	65d	$\beta^{-}(2.12^{79}$,1.96^{20}, -)	$(.155^{20}$,.48-1.96)	

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
$_{75}Re^{177}$	17m	$\beta^+ > .4$		
Re^{178}	15m	$\beta^+ 3.1$		
Re^{179}	18m	EC	.28(.222)	
$Re^{180?m}$	2.4m	EC,$\beta^+ 1.1$	.88,.106	
Re^{180}	20h	$\beta^+ 1.9$		
Re^{181}	20h	EC	(.366),.110,.44,.95, .020-1.54	
$Re^{182?m}$	13h	EC,CE	.100,.229,1.1,1.2, .020-1.44	
Re^{182}	64h	EC,CE	.100,1.12,1.22,1.18, .066-1.99	
Re^{183}	70d	EC	.046,.162,.085,.209, .041-.41	
$Re^{184?m}$	2.2d		.043,.159	
Re^{184}	50d	EC	$.111^{45}$,$.79^{40}$,$.89^{15}$, $.90^{4}$,.097-.64	
Re^{186}	90h	$\beta^- 1.07^{73}$,$.93^{23}$, -,EC^{4}	$.137^{23}$,$.123^{2}$,$.63^{0.4}$, $.77^{0.3}$	
Re^{187}	$6 \cdot 10^{10}$y	$\beta^- < .01$		$\beta^- < 0.01$
Re^{188m}	20m	IT,CE^{70}	.105,.064	
Re^{188}	17h	$\beta^- 2.12^{79}$,1.96^{20}, -	$.155^{20}$,$.63^{1}$,.48-1.96	$\beta^- 2.12$
Re^{190}	3m	$\beta^- 1.7$	.187,.57,.39,.83,-	
Re^{191}	10m	$\beta^- 1.8$		
$_{76}Os^{181}$	23m	EC	.166,.174	
Os^{182}	22h	EC(CE)	.51,.180,.028-.37 (.020-1.44)	
Os^{183m}	10h	EC^{54},IT^{46}	$.171^{46}$,1.10^{26}, 1.11^{22},1.03^{6},$.067^{6}$	IT.171
Os^{183}	13h	EC	$.382^{87}$,$.114^{72}$,$.168^{17}$, $.236^{6}$,.145-1.44	
Os^{185}	94d	EC	$.65^{80}$,$.88^{7}$,$.87^{7}$, .072-.75	EC.98
Os^{187m}	39h		χ	
Os^{189m}	5.7h	IT,CE^{100}	$.030^{100}$	IT.030
Os^{190m}	10m	IT,CE^{125}	.61,.50,.36,.187, .038	IT1.70
Os^{191m}	14h	IT	$.074^{100}$	IT.074
Os^{191}	15d	β^-.14(CE)	($.129^{100}$,$.042^{100}$)	$\beta^- .31$
Os^{193}	32h	$\beta^- 1.14^{40}$,-	$.073^{35}$,$.281^{12}$,.46, .139,.25-.56	$\beta^- 1.14$
Os^{194}	~2y	$\beta^-(2.24^{66}$,-)	(.328,.293,.62-2.05)	
Os^{195}	6m	$\beta^- 2$		
$_{77}Ir^{185}$	15h	EC	.037-.254	
Ir^{186}	15h	EC^{95},$\beta^+ 1.92$,CE	.137,.297,.43,.63, .14-.92	
Ir^{187}	12h	EC	.025-.99	
Ir^{188}	41h	EC^{99+},$\beta^+ 2.0^{0.2}$, CE	.155,.32-2.18	
Ir^{189}	11d	EC	.070,.245,.033-.276 (.031)	
$Ir^{190?m}$	3.2h	EC^{90},$\beta^+ 2.0^{10}$	.60,.36,.52,- (.61,.50,-)	
Ir^{190}	12d	EC	$.187^{72}$,$.60^{32}$,$.56^{28}$, $.52^{27}$,.20-1.33	
Ir^{191m}	4.9s	IT,CE	$.129^{100}$,$.042^{100}$	IT.171
Ir^{192mm}	>5y	IT	$.161^{100}$	IT.161
Ir^{192m}	1.4m	IT^{99+},$\beta^{-0.1}$,CE^{99}	$.058^{99+}$	IT.058
Ir^{192}	74d	$\beta^- .67^{41}$,$.53^{38}$, -,EC^{5}	.316,.468,.308, .296,.201-1.36	$\beta^- 1.45$
Ir^{193m}	12d	IT	$.080^{100}$	IT.080
Ir^{194}	19h	$\beta^- 2.24^{68}$,1.90^{15}, -	.33,.64,.29,.62-2.05	$\beta^- 2.24$
Ir^{195}	2.3h	$\beta^- 1.2$,2.1,-	.42,.66,.88	
Ir^{196}	<5h	β^-		
Ir^{197}	7m	$\beta^- 1.6$	1.8	
Ir^{198}	50s	$\beta^- 3.6$	.78	$\beta^- 4.4$
$_{78}Pt^{186}$	3h	EC		
Pt^{188}	10d	EC($\beta^+ 2.0^{0.3}$)	.20,.40,.28(.155,.32-2.18)	
Pt^{189}	11h	EC	.14,-	
Pt^{190}	$1.0 \cdot 10^{12}$y	α3.3		
Pt^{191}	3.0d	EC	.54,.36,.41,.04-.46	
Pt^{192}	$\sim 10^{15}$y	α2.6		
Pt^{193m}	4.4d	IT,CE	$.135^{100}$,$.013^{100}$	IT.148
Pt^{193}	<500y	EC	no γ	
Pt^{195m}	3.5d	IT,CE^{280}	$.130^{100}$,.099,.031	IT.260
Pt^{197m}	1.3h	IT,CE^{100}	$.34^{100}$	IT.34
Pt^{197}	18h	$\beta^- .67^{94}$,$.48^{5}$,-	$.077^{99}$,$.191^{5}$,$.28^{1}$	$\beta^- .75$
Pt^{199m}	14s	IT,CE	$.39^{100}$,$.032^{100}$	IT.42
Pt^{199}	30m	$\beta^- 1.7$,-	.197,.074-.96	$\beta^- 1.7$
Pt^{200}	12h	$\beta^-(\beta^- 2.2^{74}$,-)	$(1.23^{25}$,$.37^{25}$,$1.60^{1})$	
$_{79}Au^{(182-187)}$	4.3m	EC,β^+,$\alpha 5.07^{.01}$		
Au^{186}	15m	EC		
Au^{188}	4.5m	EC		
Au^{189}	42m	EC	.29,.135,-	
Au^{191}	3h		.30,.14,.60,.048-.48	
Au^{192}	4.8h	EC^{99},$\beta^+ 2.22^{1}$	.316,.296,.045-1.16	EC, $\beta^+ 3.24$
Au^{192m}	4s	IT^{99+},$EC^{.03}$	.258,.032,.290, -	IT.291
Au^{193}	17h	EC	$.186^{21}$,$.112^{15}$,$.256^{7}$, $.174^{4}$,.013-.49	
Au^{194}	39h	EC^{97},$\beta^+ 1.49^{1}$, -	.328,.293,.10-2.3	EC, $\beta^+ 2.51$
Au^{195m}	31s	IT	.318,.261,.057	IT.318
Au^{195}	180d	EC,CE	.099,.031,.130	EC.27
$Au^{196?m}$	14h	EC or IT		
Au^{196}	5.6d	EC^{88},$\beta^- .27^{12}$, CE^{8}	$.354^{88}$,$.331^{24}$,$.43^{12}$	$\beta^- .70$
Au^{197m}	7.3s	IT,CE	$.279^{99}$,$.130^{99}$,$.41^{1}$	IT.407
Au^{198}	2.70d	$\beta^- .96^{99}$,$.28^{1}$, $1.37^{0.3}$,CE^{4}	$.412^{99}$,$.69^{1}$,$1.09^{0.2}$	$\beta^- 1.37$
Au^{199}	3.15d	$\beta^- .30^{70}$,$.25^{24}$,$.46^{6}$	$.158^{78}$,$.208^{16}$,$.050^{8}$	$\beta^- .46$
Au^{200}	48m	$\beta^- 2.2^{74}$,$.7^{26}$	1.23^{25},$.37^{25}$,1.60^{1}	$\beta^- 2.2$
Au^{201}	26m	$\beta^- 1.5$	$.55^{5}$	$\beta^- 1.5$
Au^{202}	0.4m	β^- or IT		
Au^{203}	55s	$\beta^- 1.9$	.69	$\beta^- 1.9$
$Au^{(>198)}$	19h		.74,.26,.50,.88	
$_{80}Hg^{(<195)}$	0.7m	α5.6		
$Hg^{(<191)}$	~3h	CE		
$Hg^{(<191)}$	1.5h	EC,CE		
Hg^{189}	23m	EC,CE	.029,.14,.22	
Hg^{191}	57m	EC	.253,.274	
Hg^{192}	6h	EC,$\beta^+ 1.2$	.031,.157,.114,.142-.275	
Hg^{193m}	11h	EC^{84},IT^{16}, $\beta^+ 1.17$,-,CE	$.101^{16}$,$.039^{16}$,.157-1.65	
Hg^{193}	6h	EC	.038,.186,.76	
Hg^{194m}	0.4s	IT	.134,.048	
Hg^{194}	~2y	EC($\beta^+ 1.49^{1}$,-)	(.328,.293,.10-2.3)	
Hg^{195m}	40h	IT,EC	.123,.037,.56, .173-1.24(.318,-)	
Hg^{195}	9.5h	EC	.061,.180,.78, .200-1.17(.318,-)	
Hg^{197m}	24h	IT^{96},EC^{4},CE^{160}	$.165^{96}$,$.134^{96}$($.279^{3}$, $.130^{3}$,.41)	
Hg^{197}	65h	EC,CE^{70}	$.077^{100}$,$.191^{1}$	
Hg^{199m}	43m	IT,CE^{100}	$.368^{100}$,$.158^{100}$	
Hg^{203}	47d	$\beta^- .21^{100}$	$.279^{100}$	$\beta^- .49$
Hg^{205}	5.2m	$\beta^- 1.62$,1.4	.205	$\beta^- 1.62$
$_{81}Tl^{191}$	10m	EC		
Tl^{193}	30m	EC		
$Tl^{194?m}$	33m	EC	.097	
Tl^{194}	33m	EC	.43	
Tl^{195m}	3.5s	IT	.393,.383,.099	IT.875
Tl^{195}	1.2h	EC	.037	
Tl^{196m}	1.4h	IT,EC	.120,.275,.241, .034,.084	IT.395
Tl^{196}	1.8h	EC	.425	
Tl^{197m}	0.54s	IT	$.387^{100}$,$.385^{100}$, $.222^{100}$	IT.994
Tl^{197}	2.7h	EC	.152,.134,.173,.42,.27	
Tl^{198m}	1.8h	IT,EC	.282,.261,.048, .023,-	IT.543
Tl^{198}	5.3h	EC	$.412^{100}$,$.68^{10}$,1.20, .195-1.44	
Tl^{199m}	42ms	IT	.37	
Tl^{199}	7.4h	EC	.158,.208,.078-.49 (.368,-)	
Tl^{200}	26h	EC^{99+},$\beta^+ 1.44$, $-^{0.2}$	$.368^{96}$,1.21^{21},$.58^{16}$, 1.36^{10},.116-2.1	EC, $\beta^+ 2.46$
$Tl^{201?m}$	5ms	IT or EC		
Tl^{201}	3.0d	EC	.167,.135,.032,.030	
Tl^{202}	12d	EC	.44	
Tl^{204}	3.9y	$\beta^- .77^{98}$,EC^{2}		EC.35,$\beta^- .77$
Tl^{206}	4.2m	$\beta^- 1.51^{100}$		$\beta^- 1.51$
Tl^{207}	4.8m	$\beta^- 1.44$	$.89^{0.2}$	$\beta^- 1.44$
Tl^{208}	3.1m	$\beta^- 1.80^{47}$,1.0-2.38	2.61^{100},$.58^{77}$,$.51^{20}$, .040-1.09	$\beta^- 4.99$
Tl^{209}	2.2m	$\beta^- 1.99^{100}$,CE^{30}	1.56^{100},$.45^{100}$, $.12^{100}$	$\beta^- 4.12$
Tl^{210}	1.3m	$\beta^- 1.96^{99+}(n_{.02})$	2.36^{99+},$.78^{99+}$, $.30^{99+}$	$\beta^- 5.40$
$_{82}Pb^{194}$	11m	EC	.20	
Pb^{195}	17m	EC	(.39,.38,.099)	
Pb^{196}	37m	EC	.191,.240,.253	
Pb^{197m}	42m	EC^{80},IT^{20}	$(.387^{80}$,$.385^{80}$, $.222^{80})$,$.234^{20}$	IT.234
Pb^{198}	2.4h	EC	.290,.365,.117-.398	
Pb^{199m}	12m	IT,CE^{80}	.424	IT.424
Pb^{199}	1.5h	EC,$\beta^+ 2.8$	$.367^{100}$,.353,.72 27-1.13	EC, $\beta^+ 4.2$

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
$_{82}Pb^{200}$	21h	EC	.148,.235,.268,.142, .033-.45	
Pb^{201m}	61s	IT	.63	IT0.63
Pb^{201}	9.4h	EC,β^+	.330,.361,.406,.585, .129-1.10	
Pb^{202m}	3.6h	IT^{90},EC^{10}	.96,.42,.79,.129, .240-.66	
Pb^{202}	$3 \cdot 10^5$y	EC	(.44)	
Pb^{203m}	6s	IT	.83	
Pb^{203}	52h	EC	$.279^{100}$,$.40^4$,$.68^1$	
Pb^{204m}	67m	IT	$.90^{100}$,.375,.91, .62,.289,.66	IT2.19
Pb^{204}	$1.4 \cdot 10^{17}$y	α2.6		
Pb^{205m}	5ms	IT,CE	$.026^{100}$,$.988^{91}$, $.703^9$,$.284^9$	IT1.014
Pb^{205}	$3 \cdot 10^7$y		no γ	
Pb^{207m}	0.8s	IT	1.06,.57	
Pb^{209}	3.3h	β^-.63	no γ	β^-.63
Pb^{210}	20y	β^-.017^{85},.063^{15}	$.046^{15}$	β^-.063
Pb^{211}	36.1m	$\beta^-1.39^{80}$,-	$.83^{13}$,$.40^6$,$.58^6$, .065-.83	β^-1.39
Pb^{212}	10.64h	$\beta^-.34^{84}$,$.58^{12}$,-	$.239^{84}$,.30,.115-.41	β^-.58
Pb^{214}	26.8m	$\beta^-1.03^6$,-	.352,.295,.053- .259	β^-1.03
$_{83}Bi^{(<198)}$	1.7m	α6.2		
Bi^{196}	7m	EC^{99+},$\alpha 5.8^{-05}$		
Bi^{199}	25m	EC^{99+},$\alpha 5.5^{-012}$		
Bi^{200}	35m	EC	1.03,.46	
$Bi^{201?m}$	1.8h	EC	(.63)	
Bi^{201}	1.0h	EC^{99+},$\alpha 5.2^{-003}$		
Bi^{202}	1.6h	EC	.42,.96	
Bi^{203}	12h	EC,β^+1.35,.73, $\alpha 4.8^{-001}$	.82,.264,.060-1.90 (.83,-)	EC, β^+3.19
Bi^{204}	12h	EC	.079-1.21(.90,.375, .91,-)	
Bi^{205}	15d	EC^{99+},$\beta^+.92^{0.7}$	.70,1.77,.115-2.6 (.026,.988,-)	EC, β^+2.65
Bi^{206}	6.3d	EC	.80,.54,.40,.34, .107-1.72	
Bi^{207}	28y	EC	$.57^{95}$,1.77^8,1.43,.89 (1.06^{57})	
Bi^{208m}	2.7ms	IT	.93,.50	IT1.43
Bi^{208}	$3 \cdot 10^4$y	EC	2.61	
Bi^{210m}	5.0d	$\beta^-1.16^{99+}$,α^{-02}	no γ	β^-1.16
Bi^{210}	$2.6 \cdot 10^6$y	$\alpha 4.94^{99+}$,$\beta^{-0.4}$	no γ	
Bi^{211}	2.15m	$\alpha 6.62^{83}$,6.27^{17}, (9),$\beta^{-0.3}$	$.35^{17}$	
Bi^{212}	60.5m	$\beta^-2.25$,$-^{64}$, $\alpha 6.09$,$-^{36}$(9.5-10.5)	$.040^{25}$,$.73^6$,1.62, .124-2.2	β^-2.25
Bi^{213}	.47m	$\beta^-1.39$,$-^{98}$, α5.86	.44	β^-1.39
Bi^{214}	19.7m	$\beta^-3.18$,$-^{99+}$, $\alpha 5.51$,$-^{04}$ (8.3-10.5)	.61,1.12,1.76,.45-2.43	β^-3.18
Bi^{215}	8m	β^-		
$_{84}Po^{192}$	0.5s	α6.58		
Po^{194}	13s	α6.38		
Po^{195}	30s	α6.26		
Po^{196}	1.9m	α6.14		
Po^{197}	4m	α6.03		
Po^{198}	7m	α5.93		
Po^{199}	11m	α5.85		
Po^{200}	8m	α5.77		
Po^{201}	18m	EC,α5.67		
Po^{202}	51m	EC^{98},$\alpha 5.58^2$		
Po^{203}	42m	EC,α5.48		
Po^{204}	3.5h	EC^{99},$\alpha 5.37^1$		
Po^{205}	1.8h	EC^{99+},$\alpha 5.2^{-07}$		
Po^{206}	8.8d	EC^{95},$\alpha 5.22^5$	$.060^{100}$,.286,.338, .511,.083-1.32	
Po^{207m}	45μs	IT	.81,.31	
Po^{207}	6.2h	EC,β^+1.14, $-^{0.5}$,$\alpha 5.10^{-01}$	.74,.99,.41,.25,.10-2.06	EC, β^+2.90
Po^{208}	2.9y	$\alpha 5.11^{100}$	$.60^{-006}$,$.29^{-003}$	
Po^{209}	103y	$\alpha 4.88^{99+}$,$EC^{0.5}$	$.91^{0.5}$,$.26^{0.4}$	
Po^{210}	138.4d	α5.30,-	$.80^{-001}$	
Po^{211m}	25s	$\alpha 7.14^{90}$,8.70^7, 7.85^3	$.89^3$(1.06^{90},.57^{90})	
Po^{211}	0.52s	$\alpha 7.44^{99}$,6.90,6.57	$.89^{0.5}$,$.57^{0.5}$	
Po^{212}	0.30μs	α8.78		
Po^{213}	4μs	α8.37		
Po^{214}	160μs	α7.68		
Po^{215}	1.8ms	$\alpha 7.36^{99+}$,$\beta^{-.0005}$		
Po^{216}	0.16s	α6.78		
Po^{217}	<10s	α6.54		
Po^{218}	3.05m	$\alpha 6.00^{99+}$,$\beta^{-.02}$		

Nuclide	$T_{1/2}$	Particle energies	γ energies	E_{decay}
$_{85}At^{198}$	43s	α6.5		
$At^{(<203)}$	1.7m	α6.35		
At^{203}	7.2m	α6.09		
At^{204}	25m	EC		
At^{205}	26m	EC,α5.90		
At^{206}	2.9h	EC		
At^{207}	1.8h	EC^{90},$\alpha 5.75^{10}$		
$At^{208?m}$	6.2h	EC		
At^{208}	1.6h	EC^{99+},$\alpha 5.65^{0.5}$	$.66^{99}$,$.175^{25}$,.25,.12	
At^{209}	5.5h	EC^{95},$\alpha 5.64^5$	.195,.091,.55,.78	
At^{210}	8.3h	EC^{99+},$\alpha 5.36^{-06}$, 5.52^{-05},5.44^{-05}	1.18^{99},.245^{99},1.4, 1.60,.047-2.6	
At^{211}	7.2h	EC^{60},$\alpha 5.86^{40}$ (7.43,-)	$.67^{0.2}$,.062(.89,.57)	
At^{212}	0.22s	α		
At^{213}	<2s	α9.2		
At^{214}	<5s	α8.78		
At^{215}	~100μs	α8.00		
At^{216}	~300μs	α7.79		
At^{217}	18ms	α7.02		
At^{218}	1.3s	$\alpha 6.70^{94}$,6.65^6		
At^{219}	0.9m	$\alpha 6.27^{97}$,β^{-3}		
$_{86}Rn^{204}$	3m	α6.28		
Rn^{206}	7m	$\alpha 6.25^{65}$,EC^{35}		
Rn^{207}	11m	EC^{96},$\alpha 6.12^4$		
Rn^{208}	23m	EC^{80},$\alpha 6.14^{20}$		
Rn^{209}	30m	EC^{83},$\alpha 6.04^{17}$		
Rn^{210}	2.7h	$\alpha 6.04^{96}$,EC^4		
Rn^{211}	16h	EC^{74},$\alpha 5.78^{17}$, 5.85^9,5.61	$.68^{74}$,1.37^{38},.44^{29}, $.069^{17}$,.032-1.82	
Rn^{212}	23m	α6.26		
Rn^{215}	<1m	α8.6		
Rn^{216}	<9m	α8.04		
Rn^{217}	~1ms	α7.74		
Rn^{218}	19ms	$\alpha 7.13^{99+}$,$6.52^{0.2}$	$.61^{0.2}$	
Rn^{219}	3.92s	$\alpha 6.81^{82}$,6.54^{13}, 6.41^5,CE	$.27^{13}$,$.40^5$	
Rn^{220}	55s	$\alpha 6.28^{99+}$,$5.74^{0.3}$	$.54^{0.3}$	
Rn^{221}	25m	β^{-80},$\alpha 6.0^{20}$		
Rn^{222}	3.823d	$\alpha 5.49^{99+}$,4.98^{-08}, 4.83	$.51^{-08}$	
$_{87}Fr^{212}$	19m	EC^{56},$\alpha 6.39^{17}$, 6.41^{16},6.34^{11}		
Fr^{217}	<2s	α8.3		
Fr^{218}	<5s	α7.85		
Fr^{219}	20ms	α7.30		
Fr^{220}	28s	α6.69		
Fr^{221}	4.8m	$\alpha 6.33^{84}$,6.11^{16}	$.22^{16}$	
Fr^{222}	15m	β^{-99+},$\alpha^{0.1}$		
Fr^{223}	22m	$\beta^-1.15^{99+}$, $\alpha 5.34^{-005}$	$.050^{40}$,$.080^{24}$,$.21^3$, $.31^1$	β^-1.15
$_{88}Ra^{213}$	2.7m	α6.90		
Ra^{219}	<1m	α8.0		
Ra^{220}	<9m	$\alpha 7.45^{99}$,6.99^1	$.46^1$	
Ra^{221}	30s	$\alpha 6.60^{38}$,6.75^{31}, 6.66^{20},6.57^8	$.150^{12}$,$.176^3$	
Ra^{222}	37s	$\alpha 6.55^{95}$,6.23^5	$.33^5$	
Ra^{223}	11.7d	$\alpha 5.71^{59}$,5.60^{24}, 5.53^{10},5.33-5.87	.155,.122,.270,.338, .031-.45	
Ra^{224}	3.64d	$\alpha 5.68^{95}$,5.44^5	$.241^5$	
Ra^{225}	14.8d	$\beta^-.32$	$.040^{60}$	β^-.32
Ra^{226}	1620y	$\alpha 4.78^{95}$,4.59^4,-	$.187^4$,-	
Ra^{227}	41m	$\beta^-1.30$	$.29^4$,$.50^1$	β^-1.30
Ra^{228}	6.7y	$\beta^-<.02$		$\beta^-<.02$
Ra^{229}	<5m	β^-		
Ra^{230}	1h	$\beta^-1.2$		
$_{89}Ac^{221}$	<2s	α7.6		
Ac^{222}	5.5s	α6.96		
Ac^{223}	2.2m	$\alpha 6.64^{99}$,EC^1		
Ac^{224}	2.9h	EC^{90},$\alpha 6.17^{10}$	.217,.133	
Ac^{225}	10.0d	$\alpha 5.82^{54}$,5.78^{28}, 5.72^{10},5.54-5.71	.037-.187	
Ac^{226}	29h	$\beta^-1.2^{80}$,EC^{20}	.230,.158,.072, .253,.185,.068	β^-1.4
Ac^{227}	21.6y	$\beta^-.046^{99}$,$\alpha 4.94^1$		β^-.046
Ac^{228}	6.13h	$\beta^-1.11^{53}$,.45-2.18	.057,.10,.91, .078-1.64	β^-2.18
Ac^{229}	66m	β^-		
Ac^{230}	<1m	$\beta^-2.2$		
$_{90}Th^{223}$	<1m	α7.55		
Th^{224}	1.0s	α7.13		
Th^{225}	8m	$\alpha 6.47^{42}$,6.30-6.79,EC^{10}	$.32^{30}$,$.36^7$,$.245^5$	
Th^{226}	31m	$\alpha 6.33^{79}$,6.22^{19}, -	$.111^{19}$,.13-.24	
Th^{227}	18.2d	$\alpha 5.98^{24}$,6.04^{23}, 5.67-6.01	.050,.087,.235, .030-.334	

Nuclide	$T_{1/2}$	*Particle energies*	*γ energies*	E_{decay}
Th^{228}	1.91y	$\alpha 5.42^{71}, 5.34^{28}$, -	.084,.212,.137, .169	
Th^{229}	7,300y	$\alpha 4.85^{70}, 4.94^{20}$, 5.02^{10}	.200,.148	
Th^{230}	$8 \cdot 10^4$y	$\alpha 4.68^{76}, 4.61^{24}$	.068,.142-.254	
Th^{231}	25.6h	$\beta^-.30$,-	.084,.017-.31	
Th^{232}	$1.41 \cdot 10^{10}$y	$\alpha 4.01^{76}, 3.95^{24}$, SF	$.059^{24}$	
Th^{233}	22.1m	$\beta^- 1.23$	.029-.90	$\beta^- 1.23$
Th^{234}	24.1d	$\beta^-.19^{65}, .10^{35}$	.092,.063,.029	
Th^{235}	<5m	β^-		
$_{91}Pa^{225}$	2.0s	α		
Pa^{226}	1.8m	$\alpha 6.81$		
Pa^{227}	38m	$\alpha 6.46^{85}$,EC^{15}		
Pa^{228}	22h	EC^{98},$\alpha 6.09^{1.5}$, $5.85^{0.5}$	.97,.47,.224, .058-1.57	
Pa^{229}	1.5d	EC^{99},$\alpha 5.69^1$		
Pa^{230}	17d	EC^{85},$\beta^-.41^{15}$, α^{-008}	.121,.053,.25-.95	
Pa^{231}	$3.3 \cdot 10^4$y	$\alpha 5.00^{24}, 4.67$-5.05	.29,.027,.038-.36	
Pa^{232}	1.31d	$\beta^-.28^{80}$,.4-1.24	.047-1.15	$\beta^- 1.24$
Pa^{233}	27.0d	$\beta^-.26^{58}, .15^{37}, .57^5$	$.31^{80}$,.016-.42	$\beta^-.57$
Pa^{234m}	1.18m	$\beta^- 2.31$,-^{99},IT^1	.043,.23-1.83	$\beta^- 2.31$
Pa^{234}	6.66h	$\beta^- 1.13$,-	.043,.80,.099-1.68	
Pa^{235}	24m	$\beta^- 1.4$	no γ	$\beta^- 1.4$
Pa^{237}	39m	$\beta^- 2.30^{60}, 1.35^{30}$, -	.090,.91,.87,.46, .145-1.42	$\beta^- 2.30$
$_{92}U^{227}$	1.3m	$\alpha 6.8$		
U^{228}	9m	$\alpha 6.67^{80}$,EC^{20}		
U^{229}	58m	EC^{80},$\alpha 6.36^{13}$, $6.33^5, 6.30^2$		
U^{230}	21d	$\alpha 5.88^{67}, 5.81^{33}$, 5.66^1,CE	$.072^{33}$,.154,.158, .232	
U^{231}	4.3d	EC^{99+},$\alpha 5.45^{-005}$	.018-.22	
U^{232}	74y	$\alpha 5.32^{68}, 5.26^{32}$, 5.13,SF	.057,.13,.27,.33	
U^{233}	$1.62 \cdot 10^5$y	$\alpha 4.82^{83}, 4.77^{15}$	.043,.056,.099	
U^{234}	$2.50 \cdot 10^5$y	$\alpha 4.77^{72}, 4.72^{28}$, -,SF	.053,.118	
U^{235m}	26.2m	IT	$<.001^{100}$	IT<.001
U^{235}	$7.1 \cdot 10^8$y	α4.18-4.56,SF	$.185^{55}, .143^{12}$, $.095^9$,074-.38	
U^{236}	$2.39 \cdot 10^7$y	α4.50,-,SF	$.050^{27}$	
U^{237}	6.75d	$\beta^-.25$,-	$.060^{36}, .21^{24}$, .026-.37	$\beta^-.52$
U^{238}	$4.51 \cdot 10^9$y	α4.19,-,CE, SF	$.048^{23}$	
U^{239}	23.5m	$\beta^- 1.21$	.074	$\beta^- 1.28$
U^{240}	14h	$\beta^-.36$,-,CE^{18}	$.044^{25}$	$\beta^-.36$
$_{93}Np^{231}$	50m	$\alpha 6.28$		
Np^{232}	13m	EC		
Np^{233}	35m	EC^{99+},$\alpha 5.53^{-001}$		
Np^{234}	4.4d	EC^{99+},$\beta^+.8^{-05}$	.043-1.61	
Np^{235}	1.1y	EC^{99+},$\alpha 5.06^{-002}$	.086,.026	
Np^{236m}	22h	$\beta^-.52^{57}$,EC^{43}	.045,.150	$\beta^-.52$
Np^{236}	>5,000y			
Np^{237}	$2.2 \cdot 10^6$y	α4.52-4.87	$.087^{14}, .029^{14}$, .057-.200	
Np^{238}	2.10d	$\beta^- 1.24$,-	$1.03^{,}.99$,.044, .102,.87-.94	$\beta^- 1.28$
Np^{239}	2.36d	$\beta^-.72$,-	.045-.335	
Np^{240m}	7.3m	$\beta^- 2.18$,-,CE^{40}	$.043^{39}, .55^{22}$, $.60^{12}$,.26-1.62	$\beta^- 2.18$
Np^{240}	60m	$\beta^-.89$	.56,.44,.60, .085-1.16	$\beta^- 2.05$
Np^{241}	16m	$\beta^- 1.36$		
$_{94}Pu^{232}$	26m	EC,$\alpha 6.58$		
Pu^{233}	20m	EC^{99+},$\alpha 6.30^{0.1}$		
Pu^{234}	9h	EC^{94},$\alpha 6.19^6$		
Pu^{235}	26m	EC^{99+},$\alpha 5.85^{-002}$		
Pu^{236}	2.85y	$\alpha 5.76^{69}, 5.72^{31}$, -,CE^{31}	$.047^{31}, .110^{-01}$,.165	
Pu^{237m}	0.18s	IT,CE^{98},SF	$.145^{100}$	
Pu^{237}	45d	EC^{99+},α5.2-5.65	.033,.060,.026-.076	
Pu^{238}	86y	$\alpha 5.49^{72}, 5.45^{28}$, -,CE^{28},SF	$.044^{28}$,.099-.81	
Pu^{239}	24,300y	$\alpha 5.15^{72}, 5.13^{17}$, 5.10^{11},-,SF	$.013^{17}$,.051,.038-.42(<.001)	
Pu^{240}	6,600y	$\alpha 5.16^{76}, 5.12^{24}$, -,SF	$.045^{24}$,-	
Pu^{241}	13.2y	$\beta^-.021^{99+}$,α4.89, $-^{-004}$	$.145^{-001}$	
Pu^{242}	$3.8 \cdot 10^5$y	$\alpha 4.90^{76}, 4.86^{24}$, SF	$.045^{24}$	
Pu^{243}	5.0h	$\beta^-.58^{62}, .49^{38}$	.084,.042,.012-.38	
Pu^{244}	$8 \cdot 10^7$y	α,SF		
Pu^{245}	11h	β^-		
Pu^{246}	11d	$\beta^-.15^{73}, .33^{27}$	.047,.027,.08, .175,.215	
$_{95}Am^{237}$	1h	EC^{99+},$\alpha 6.01^{-005}$		
Am^{238}	1.9h	EC	.98,.58,.37,.95,1.35	
Am^{239}	12h	EC^{99+},$\alpha 5.75^{-004}$	$.225^{30}, .275^{20}$, .045-.28	
Am^{240}	51h	EC	$1.00^{77}, .90^{23}$,1.40, .043,.099	
Am^{241}	458y	$\alpha 5.48^{85}, 5.44^{13}$, 5.31-5.54	.060,.033,.027, .043-.37	
Am^{242m}	16.0h	$\beta^-.63^{49}, .67^{33}$, EC^{19}	$.042^{49}, .045^{12}$	$\beta^-.67$
Am^{242}	~100y	$\beta^-.59^{99}$,EC^{10},α	$.042^{50}$	$\beta^-.59$
Am^{243}	8000y	$\alpha 5.27^{87}, 5.22^{12}$, 5.17-5.34	.075,-	
Am^{244}	26m	$\beta^- 1.5^{99+}$,EC^{-04}	no γ	$\beta^- 1.5$
Am^{245}	2.0h	$\beta^{-.90}$	.036,.230,.255, .153,.140	
Am^{246}	25m	$\beta^- 1.31^{79}, 1.60^{14}$, 2.10^7	.035,.100,.245, .78-1.06	
$_{96}Cm^{238}$	2.5h	EC,$\alpha 6.50$		
Cm^{239}	2.9h	EC	.188	
Cm^{240}	27d	α6.26,-,SF		
Cm^{241}	35d	EC^{99},$\alpha 5.95^1$	$.48^{97}, .145<^1$	
Cm^{242}	163d	$\alpha 6.11^{74}, 6.07^{26}$, -,SF	$.044^{26}$,.102,.158	
Cm^{243}	35y	$\alpha 5.78^{73}, 5.74^{13}$, 5.63-6.06,EC$^{0.3}$	.277,.228,.210, .106	
Cm^{244}	18y	$\alpha 5.80^{77}, 5.76^{23}$, -,SF	.043,.100,.150	
Cm^{245}	8,000y	$\alpha 5.36^{90}, 5.45^{10}$	$.173^{14}, .13^5$	
Cm^{246}	6,600y	α5.37,SF		
Cm^{247}	$>4 \cdot 10^7$y			
Cm^{248}	$4.7 \cdot 10^5$y	$\alpha 5.05^{89}$,SF^{11}		
Cm^{249}	64m	$\beta^-.9$		
Cm^{250}	$2 \cdot 10^4$y	SF^{100}		
$_{97}Bk^{243}$	4.5h	EC^{99+},α6.20-$6.72^{0.15}$	.96,.84,.74,.042-.54	
Bk^{244}	4.4h	EC^{99+},$\alpha 6.67^{-006}$	.20,.90,1.06,1.16, 1.23-1.72 ·	
Bk^{245}	4.98d	EC^{99+},α5.89-$6.37^{0.11}$	$.25^{31}, .38^5$,.164-.48	
Bk^{246}	1.8d	EC	$.82^{40}$,1.09	
Bk^{247}	$\sim 10^4$y	$\alpha 5.51^{58}, 5.67^{37}$, 5.30^5	$.084^{40}, .27^{30}$	
Bk^{248}	16h	$\beta^-.65^{70}$,EC^{30}		$\beta^-.65$
Bk^{249}	310d	$\beta^-.125^{99+}$,α5.42, $-^{-002}$,SF	$.32<^1$	$\beta^-.125$
Bk^{250}	3.2h	$\beta^-.9$,1.9	.98	$\beta^- 1.9$
$_{98}Cf^{244}$	25m	$\alpha 7.17$		
Cf^{245}	44m	EC^{70},α7.11		
Cf^{246}	36h	$\alpha 6.75^{78}, 6.71^{22}$, CE^{22},SF	$.042^{22}$,.096,.146	
Cf^{247}	2.5h	EC	$.295^{20}, .42^{13}, .46^9$	
Cf^{248}	350d	α6.26,SF		
Cf^{249}	360y	$\alpha 5.81^{92}, 5.93^5$, 6.20^2,SF	.39,.34,.26	
Cf^{250}	10y	$\alpha 6.02^{83}, 5.98^{17}$, SF	$.043^{17}$	
Cf^{251}	~800y	α	.18	
Cf^{252}	2.4y	$\alpha 6.11^{83}, 6.07^{15}$, SF^3	$.043^{15}$,.100	
Cf^{253}	17d	$\beta^-.27$		$\beta^-.27$
Cf^{254}	56d	SF^{100}		
$_{99}Es^{246}$	7.3m	$\alpha 7.35$		
Es^{248}	25m	EC^{99+},$\alpha 6.87^{0.3}$		
Es^{249}	2h	EC^{99+},$\alpha 6.76^{0.12}$		
Es^{250}	8h	EC		
Es^{251}	1.5d	EC^{99+},$\alpha 6.48^{0.6}$		
Es^{252}	140d	$\alpha 6.64$		
Es^{253}	20.0d	$\alpha 6.63^{90}$,-,SF	.042,.051,.39,.43	
$Es^{254?m}$	480d	$\alpha 6.42$	.062	
Es^{254}	37h	$\beta^- 1.04^{99+}$,EC$^{0.1}$ (α7.20),SF	$.66^{40}$	
Es^{255}	24d	β^-		
Es^{256}	short	β^-		
$_{100}Fm^{250}$	30m	$\alpha 7.43$		
Fm^{251}	7h	EC^{99},$\alpha 6.89^1$		
Fm^{252}	1d	α7.04,SF		
Fm^{253}	5d	EC^{89},$\alpha 6.94^{11}$		
Fm^{254}	3.2h	$\alpha 7.20^{82}, 7.16^{17}$, 7.06^1,CE^{18}	$.041^{18}, .098^1$	
Fm^{255}	21h	$\alpha 7.03$	.055,.082	
Fm^{256}	3h	SF^{100}		
$_{101}Md^{255}$	0.5h	EC^{90},$\alpha 7.34^{20}$		
Md^{256}	1.5h	EC		
$_{102}No^{252}$	10m	$\alpha 8.5$		
No^{254}	3s	$\alpha 8.8$		

Gamma Emitters by

For specific half-life and energy data, refer to

THIS TABLE can help identify unknown gamma emitters whose half-life and beta energy have been determined by standard laboratory techniques. It also is a guide to gamma-emitting isotopes for applications requiring specific half-lives and energies. [A similar table for beta emitters is in preparation; meanwhile readers can consult an earlier chart of beta emitters by N. Hallden which appeared in NUCLEONICS **13,** No. 6, 78 (1955).]

	0.04-0.06 Mev	0.02-0.04 Mev	0.06-0.08 Mev	0.08-0.1 Mev	0.1-0.2 Mev	0.2-0.4 Mev
1-10m	Sb^{124m} Cr^{56} Os^{190m}	Nb^{94m} Rh^{104m} Gd^{161} Ir^{192m} Pa^{234m} Np^{240m}	Rh^{104m} Ag^{111m} Sb^{122m} W^{185m}	Cr^{56} As^{79} Se^{79m} Lu^{168} Ta^{178}	Mn^{57} Se^{71} Pd^{109m} Ag^{113m} In^{114} Sb^{118m} Xe^{127m} Cs^{128} Pm^{152} Tb^{152} Gd^{161} Tb^{163} Dy^{165m} Re^{180} W^{185m} Ta^{186} Os^{190m} Re^{190} Tl^{209}	Ti^{51} Fe^{53} Cu^{59} Fe^{61} Co^{64m} Co^{64} Ge^{75} Se^{83m} Ru^{107} Ag^{113m} Sn^{125m} Cs^{126} Sb^{128} Te^{133} I^{136} Dy^{150} Pm^{152} Tb^{152} Gd^{161} Dy^{165m} W^{179m} Tl^{210} Bi^{211} Fr^{221} Th^{225} Os^{190m} Re^{190} Hg^{205}
10m-1h	Sb^{124mm} U^{235m} Tc^{96m} Ho^{164} Lu^{167} W^{179} Hg^{189} Am^{246}	Cr^{49} Co^{60m} Rh^{103m} Fr^{223}	Cd^{104} Xe^{121} Pr^{135} Ba^{142} Ho^{164} Yb^{167} Ta^{185} Re^{188m} Fr^{223} U^{239}	Cr^{49} Rb^{81m} Cd^{104} Xe^{121} Tm^{161} Ho^{164} Tl^{194} Pa^{237} Am^{246}	Cl^{34m} Cr^{49} Ga^{65} Ge^{67} Rb^{79} Se^{81m} Pd^{99} Ag^{103} Ag^{104m} Cd^{104} Cd^{111m} In^{112m} Ag^{115} Sn^{123} Cs^{125} Te^{131} Ba^{141} Ce^{146} Tb^{147} Dy^{151} Nd^{151} Sm^{155} Ho^{156} Ho^{160} Tm^{161} Yb^{167} Os^{181} Ta^{182m} Ta^{185} Re^{188m} Au^{189} Hg^{189} Pb^{194} Pb^{196} Pt^{199} Hg^{199m} Th^{226} Cm^{239}	Cl^{39} Mn^{52m} As^{69} Se^{83} Rb^{84m} Tc^{93m} Pd^{99} Tc^{101} In^{107} Rh^{107} Sn^{109} Cd^{111m} Ag^{115} Te^{133m} Pr^{135} Ba^{141} Ba^{142} Ce^{146} Tb^{147} Nd^{151} Sm^{155} Lu^{167} Lu^{178} Re^{179} Ta^{182m} Au^{189} Hg^{189} Hg^{191} Pb^{196} Hg^{199m} Au^{200} Pb^{211} Pb^{214} Fr^{223} Ra^{227} Am^{246}
1-10h	Cs^{134m} Ce^{137} Sr^{85m} Co^{58m} Kr^{77} Br^{80m} Kr^{83m} Sb^{118} Te^{129} Ho^{161} Ho^{162} Os^{189m} Hg^{192} Hg^{193} Tl^{195} Tl^{196m} Tl^{198m} Bi^{212} Am^{245}	Zn^{62} Ge^{66} Br^{80m} Br^{83} Ho^{160m} Ho^{162} Hf^{182m} Tl^{198m} Ac^{228} Pa^{234} Pu^{236} Pu^{243} Fm^{254}	Co^{61} Se^{73} Pr^{145} Dy^{155} Dy^{157} E^{161} Ho^{161} Tm^{163} Tm^{166} Ta^{173} Os^{183m} Hg^{195} At^{211}	Dy^{155} Dy^{157} Ho^{162} Dy^{165} Ta^{173} Ta^{174} Lu^{176m} Ta^{176} Hf^{180m} Ta^{180m} Tl^{196m} At^{209} Ac^{228} Am^{238} Pu^{243} Fm^{254}	Fe^{52} Ge^{66} Kr^{77} Kr^{85m} Sr^{85m} Kr^{88} Ru^{95} Tc^{99m} In^{109} In^{110m} Pd^{111m} In^{117m} In^{117} Sb^{117} Xe^{123} Cs^{127} Sb^{129} Ba^{129} La^{131} Cs^{134m} Pr^{136} Ba^{139} Nd^{141} Nd^{149} Tb^{149} Eu^{152m} Tb^{154} Dy^{155} Dy^{157} Ho^{161} Ho^{162} Tm^{163} Tm^{166} Er^{171} Ta^{173} Ta^{174} Yb^{177} Ta^{180m} Os^{183m} Ta^{184} Au^{191} Hg^{192} Hg^{193} Tl^{196m} Tl^{197} Tl^{199} Pb^{202m} At^{208} At^{209} Ac^{224} Pu^{236} Bk^{244} Am^{245}	Sc^{43} Cu^{61} Ni^{65} Ge^{66} Zn^{71m} Ga^{73} Se^{73} Br^{75} Rb^{81} Sr^{85m} Kr^{85m} Sr^{87m} Kr^{87} Zr^{87} Sr^{92} Mo^{93m} Ru^{95} Rh^{99m} Pd^{101} In^{108m} Sn^{110} In^{113m} Ag^{113} In^{115m} In^{117m} Sb^{118} I^{121} Xe^{123} Tb^{154} Ba^{126} Cs^{127} Sb^{128} Ba^{129} Sb^{129} La^{131} Xe^{135} Pr^{138} Nd^{149} Tb^{149} Pm^{150} Tb^{151} Dy^{152} Dy^{155} Dy^{157} Er^{161} Ho^{162} Tm^{163} Dy^{165} Ho^{167} Ta^{174} Ta^{176} Ta^{178} Hf^{180m} Ta^{184} Ir^{190} Au^{191} Au^{192} Tl^{196m} Pt^{197m} Tl^{197} Tl^{198m} Pb^{198} Pb^{199} Tl^{199} Pb^{201} Po^{201} Pb^{204m} At^{208} At^{210} Ac^{224} Am^{238} Am^{245} Cf^{247}
10h-1d	Pd^{112} $Mg^{28}Hg^{193m}$	Xe^{125} Te^{132} Gd^{159} Np^{236m} U^{240} Am^{242m} Fm^{255}	Pd^{109} Gd^{159} W^{187} Os^{191m} Pt^{197} Rn^{211}	Xe^{122} Ta^{175} Re^{182} Fm^{255}	Cr^{48} Y^{86} Nb^{90} Xe^{122} I^{123} Xe^{125} Tb^{154} Eu^{157} Hf^{171} Hf^{173} Ta^{175} Re^{181} Os^{182} Os^{183} Ir^{186} W^{187} Tb^{151} Re^{188} Pt^{189} Hg^{193m} Au^{193} Pt^{197} Hg^{197m} Pb^{200} Np^{236m}	Mg^{28} K^{43} Cr^{48} Ge^{77} Zr^{86} Y^{87m} Y^{93} Rh^{105} Pd^{109} Xe^{122} Xe^{125} Te^{132} Tb^{152} Tb^{154} Gd^{159} Hf^{171} Hf^{173} Ta^{175} Os^{183} Ir^{186} Au^{193} Ir^{194} Pt^{197} $Au^{>198}$ Pb^{200} Bi^{203} Pb^{212} Pa^{228} Am^{239}
1-10d	Ba^{133m} Er^{169} Pt^{193m} As^{71} Sb^{119} Xe^{129m} Cs^{129} Eu^{146} Tb^{161} Dy^{166} Lu^{169} Hg^{195m} Tl^{201}	Se^{72} Kr^{79} Ce^{143} Tb^{161} Tm^{165} Dy^{166} Tm^{167} Ta^{183} Re^{184} Au^{199} Po^{206} U^{237} Np^{238} Am^{240} Cf^{246}	Pm^{151} Sm^{153} Tb^{161} Tm^{165} Ho^{166} Lu^{169} Lu^{171} Lu^{172} Tm^{172} Os^{193} Hg^{197} Ac^{226}	Cu^{67} Ga^{67} Pd^{100} Xe^{133} Tb^{153} Tb^{155} Dy^{166} Lu^{169} Lu^{170} Lu^{172} Re^{182} Pt^{195m} Th^{231} Am^{240} Cf^{246}	Sc^{47} Ni^{56} Ni^{57} Cu^{67} Ga^{67} As^{71} Kr^{79} Rh^{101m} In^{111} Xe^{129m} Te^{131m} Xe^{133} Nd^{140} Eu^{146} Gd^{149} Pm^{151} Sm^{153} Tb^{153} Tb^{155} Tb^{156} Yb^{166} Lu^{169} Lu^{170} Tm^{172} Yb^{175} Lu^{177} Ta^{177} Ta^{183} Re^{184} Re^{186} Ir^{188} Pt^{188} Pt^{193m} Os^{193} Hg^{195m} Pt^{195m} Hg^{197} Au^{199} Tl^{201} Ac^{226} U^{231} Np^{238} Cf^{246}	Sc^{44m} Ga^{67} As^{77} Kr^{79} Nb^{95m} Ru^{97} Rh^{101m} Ag^{106} Ag^{111} In^{111} Te^{119} Sb^{127} I^{131} Xe^{133m} Ba^{128} Cs^{129} Ba^{133m} Ba^{135m} Ce^{137m} La^{140} Ce^{143} Eu^{146} Gd^{147} Gd^{149} Pm^{151} Tb^{153} Tb^{155} Tm^{165} Tm^{172} Yb^{175} Lu^{177} Ta^{177} Ta^{183} Pt^{188} Pt^{191} Os^{193} $Au^{194}Au^{196}$ Au^{199} Tl^{200} Pb^{203} Bi^{206} Po^{206} Ra^{224} Ac^{226} U^{231} U^{237} Bk^{245}
10-100d	Tc^{95m} Te^{125m} I^{125} Ba^{140} Yb^{169} Hf^{181} Ra^{225} Th^{234} Pu^{237} Pu^{246}	Xe^{127} Ba^{140} Re^{183} Th^{227} Pa^{230} Pu^{237} Pu^{246} Es^{253}	Te^{121} Eu^{147} Ir^{189} Ir^{193m} U^{230} Th^{234} Pu^{246}	Tc^{97m} Rh^{99} Nd^{147} Eu^{156} Tb^{160} Hf^{175} Re^{183} Th^{227} Th^{234}	Sc^{47} Fe^{59} Nb^{91m} In^{114m} Te^{125m} Xe^{127} Te^{129m} Xe^{131m} Ba^{131} Ce^{141} Gd^{146} Eu^{147} Tm^{168} Yb^{169} Hf^{181} Re^{183} Re^{184} Ir^{190} Ra^{223} U^{230} Cm^{241} Pu^{246} Sn^{117m} W^{185} Pa^{230}	Tc^{95m} Rh^{99} Pd^{103} Ag^{105} I^{126} Xe^{127} Ba^{131} Pm^{149} Tb^{160} Hf^{175} Re^{183} Ir^{189} Ir^{192} Hg^{203} Ra^{223} Th^{227} U^{230} Pa^{233} Pu^{246} Es^{253}
100d-1y	Co^{57} Sn^{119m} Ce^{144} Sm^{145} Gd^{151} Au^{195}	Te^{127m} Dy^{159} Lu^{174m} Cm^{242}	Sn^{119m} Ce^{144} Sm^{145} Gd^{153} Lu^{174m}	Te^{121m} Te^{123m} Te^{127m} Ce^{144} Gd^{153} Tm^{170} Ta^{182} Au^{195}	Co^{57} Se^{75} Ag^{110m} Te^{123m} Ce^{139} Ce^{144} Eu^{149} Gd^{151} Gd^{153} W^{181} Au^{195} Cm^{242}	Se^{75} Sn^{113} Te^{121m} Eu^{149} Gd^{151} Dy^{159} Bk^{249}
1-10y	Nb^{93m} Eu^{155} Np^{235}	Eu^{155} Gd^{162} Cf^{250} Cf^{252}	Tm^{171} Hf^{172} Lu^{173} Es^{254m}	Ba^{133} Eu^{155} Th^{228} Np^{235} Cf^{252}	Rh^{101} Pm^{147} Eu^{155} Gd^{162} Hf^{172} Lu^{173} Ir^{192mm} Th^{228}	Ba^{133} Gd^{162} Lu^{173} Po^{208} Th^{228}
>10y	Pu^{239} Sm^{151} Pa^{231} Np^{237} Am^{241}	I^{129} Pb^{210} U^{232} Th^{232} U^{233} U^{234} U^{236} U^{238} Pu^{238} Pu^{239} Pu^{240} Am^{241} Am^{242} Pu^{242} Am^{244}	Ti^{44} Sn^{126} Pm^{145} Ho^{166m} Lu^{176} Th^{230} Am^{243}	Ag^{108m} Sn^{126} U^{233} U^{235} Np^{237} Pu^{238} Bk^{247}	Eu^{152} Eu^{154} Ho^{166m} Lu^{176} Ra^{226} Th^{229} U^{232} U^{234} U^{235} Pu^{241} Cm^{243} Cm^{244} Cm^{245} Cf^{251}	Cd^{113m} Eu^{152} Lu^{176} Po^{209} Pa^{231} U^{232} Cm^{243} Bk^{247} Cf^{249}

Half-Life and Energy

"Table of the Radioactive Nuclides," pp. 186–195

Where an isotope can decay by emission of gamma rays of different energies, the emitter is listed in the energy groups corresponding to each gamma. All the gamma rays from one emitter will lie in the same half-life interval.

Only isotopes with half-lives greater than 1 min are listed. Secondary gammas are not included; to determine their significance, see "Table of Radioactive Nuclides," pages 186–195.

0.6–0.8 Mev	0.4–0.6 Mev	0.8–1 Mev	1.0–1.2 Mev	1.2–1.4 Mev	1.4–1.8 Mev	1.8–2.5 Mev	2.5–8.0 Mev
Ne^{24} Cu^{59} Zn^{61} Zn^{71} Ga^{74} As^{78m} Br^{84m} Zr^{89m} Ag^{108} In^{111m} Ag^{113m} Ag^{116} Cs^{128} Te^{133} Dy^{165m} Os^{190m} Re^{190} Tl^{208} Tl^{209} Ra^{220} Np^{240m}	Ti^{51} Zn^{61} Cu^{62} Ge^{65} Br^{78} Rb^{82} Se^{83m} Mo^{91m} Rh^{98} Ag^{108} In^{109m} Ag^{113m} Ag^{116} Sb^{128} Ba^{137m} Nd^{141m} Sm^{143} Ta^{186} Os^{190m} Pb^{201m} Tl^{210}	Ne^{24} Mg^{27} Ti^{51} V^{53} Cu^{59} Zn^{61} Ga^{64} Br^{84m} Nb^{94m} Cs^{128} Te^{133} Pm^{152} Ho^{168} Lu^{168} Re^{180} Re^{190} Tl^{207}	Mg^{27} Sc^{50} Cu^{66} Ga^{68} Se^{83m}	Al^{29} Mn^{57} Cu^{59} Rb^{82} Mo^{91m} Tc^{92} In^{114} Sb^{116m} Sn^{125m} I^{136} Ta^{178}	Cl^{40} Sc^{50} V^{52} Br^{84m} Zr^{89m} Mo^{91m} Cs^{128} Tl^{209} Al^{28} Cu^{59} Zn^{61} Ge^{65} Ir^{197}	Se^{83m} Br^{84m} O^{14} Al^{29} K^{38} Co^{64m} Co^{64} Ga^{74} I^{136} Tl^{210}	S^{37} Cl^{40} Ca^{49} Ga^{64} Tl^{208}
Cl^{39} Sc^{50} Se^{83} Rb^{84m} Y^{91m} Pd^{99} Mo^{101} Tc^{101} Ag^{104m} Cd^{105} Ag^{106} Sn^{109} In^{116m} Cd^{117} Xe^{121} Sb^{126} I^{128} Te^{131} Te^{133m} Xe^{135m} Cs^{138} Xe^{138} Ba^{141} Pr^{146} Nd^{151} Lu^{178} Pb^{199m} Bi^{200} Pb^{211} Au^{201} Bi^{213} Ra^{227} Pa^{237} Np^{240} Y^{94}	Br^{74} Br^{80} Rb^{89} Pd^{99} In^{108} In^{112} Sb^{126} I^{128} Pr^{144} Gd^{145} Pr^{146} Ho^{160} Lu^{178} Bi^{214}	Ge^{67} Rb^{84m} Br^{84} Rb^{88} Tc^{94} Y^{94} Sn^{109} Sb^{116m} Sb^{116} I^{128} Te^{131} Te^{133m} I^{134} Ba^{142} Ho^{160} Pb^{211} Pa^{237}	Cl^{34m} K^{44} Co^{62} As^{70} Ga^{70} Rb^{89} Y^{94} Mo^{101} Sn^{109} In^{116m} Sb^{120} Te^{131} I^{134} Cs^{138} Ba^{142} Gd^{145} Nd^{151} Bi^{200} Bi^{214}	Cl^{39} Co^{60m} Cu^{60} Rb^{89} In^{116m} Sb^{116m} Sb^{116} Xe^{121} Au^{200}	Cl^{38} Mn^{52m} Co^{62} Tc^{94} Cs^{138} Pr^{144} Pr^{146} Xe^{138} Tc^{94} Gd^{145} Bi^{214} Au^{200}	As^{70} Rb^{88} Cl^{34m} Cl^{38} K^{44} Co^{62} Br^{84} Rb^{89} Mo^{101} In^{116m} Sb^{116} Cs^{138} Xe^{138} Pr^{144}	Rb^{88} Tc^{93m} Tc^{94m} Cl^{34m}
Zn^{62} Zn^{71m} Sr^{80} Rb^{81} Rb^{82m} Zr^{87} Sr^{92} Y^{92} Pd^{101} Ag^{104} Ru^{105} In^{117} Te^{119} Cs^{127} Te^{127} Sb^{129} La^{131} I^{132} Ce^{137} Nd^{141} Pm^{150} Tb^{150} Eu^{152m} Er^{163} W^{177} Hf^{180m} Ir^{190} Au^{191} Tl^{194} Ir^{195} Tl^{196} Tl^{197} Tl^{198} Pb^{201} Pb^{202m} Bi^{202} Po^{207} At^{209} Am^{238} Cf^{247} Te^{129}	Sc^{43} Cu^{61} Zn^{63} Zn^{71m} As^{78} Rb^{82m} Sr^{91} Mo^{93m} Nb^{97} Ru^{95} Rh^{99m} Ag^{104} In^{108m} In^{109} In^{110m} In^{110} Ag^{112} Ba^{126} Sb^{128} Sb^{129} I^{132} La^{133} Xe^{135} Pr^{136} Pr^{138} La^{142} Tb^{148} Tb^{149} Tb^{150} Dy^{165} Ho^{167} Hg^{193} Hg^{195} Ir^{195} Tl^{198} Pb^{199} Pb^{202m} Pb^{204m} Po^{207} At^{208} At^{209} At^{211} Bi^{212} Pa^{234} Bk^{243}	Mn^{56} Zn^{63} Kr^{87} Y^{92} Ag^{104} Cd^{107} In^{108m} In^{110m} Ba^{126} Sb^{128} La^{132} Nd^{141} La^{142} Pr^{145} Pm^{150} Tb^{150} Eu^{152m} Tb^{156m} Er^{161} Ir^{195} Pb^{202m} Bi^{202} Pb^{204m} Po^{207} Ac^{228} Am^{238} Bk^{243} Bk^{244} Bk^{250}	Sc^{44} Ni^{65} Ga^{66} Rb^{81} Sr^{91} Ru^{95} Nb^{97} In^{108m} Sb^{118} I^{136} Pr^{136} Pr^{138} Nd^{141} Pr^{145} Tb^{148} Er^{161} Er^{163} Ta^{176} W^{177} Yb^{177} Os^{183m} Ta^{184} Tl^{198} At^{210}	Si^{31} Ar^{41} Cu^{61} As^{78} Sr^{92} Tc^{93} Ag^{112} Sb^{118} I^{135} Nd^{139} Pr^{139} La^{141} Nd^{141} Pm^{150} Ta^{176} W^{176} Yb^{177} At^{210} Am^{238}	Ni^{65} Y^{92} Mo^{93m} Tc^{93} Ba^{129} Ba^{139} Pr^{139} At^{210} Ce^{133} I^{135} Bi^{212}	S^{38} Mn^{56} Tc^{93} Kr^{88} La^{142}	Sc^{44} Ga^{66} Kr^{87} I^{121}
Co^{55} Zn^{69m} Br^{76} Nb^{96} Rh^{100} I^{123} I^{130} I^{133} Tb^{151} Tb^{152} Eu^{157} Re^{181} Os^{182} Ir^{186} W^{187} $Au^{>198}$ Rn^{211} Pa^{228}	K^{43} Ga^{72} Br^{76} Y^{86} Tc^{95} Nb^{96} I^{130} Hf^{171} Ir^{186} W^{187} Re^{188} Ir^{194} $Au^{>198}$	Mg^{28} K^{43} Co^{55} Ga^{72} Y^{93} Tc^{95} I^{133} Re^{181} $Au^{>198}$ Bi^{203} Pa^{228}	Y^{86} Nb^{90} Tc^{95} Nb^{96} I^{130} Hf^{171} Bk^{244}	Na^{24} Mg^{28} Cu^{64} Br^{76} I^{133} Tb^{152} Hf^{171} Rn^{211}	K^{42} Co^{55} Pr^{142}	Y^{86} Nb^{92m}	Na^{24}
Ca^{47} Ge^{69} As^{76} As^{77} Br^{77} Br^{82} Y^{87} Ag^{106} Cd^{115} Sb^{122} I^{124} Sb^{126} Sb^{127} Cs^{29} La^{140} Nd^{140} Eu^{145} Pm^{148} Gd^{149} Tb^{156} Tm^{167} Pt^{191} Os^{193} Hg^{195m} Au^{198} Tl^{200} Bi^{206} Po^{206} Rn^{222}	Mn^{52} Ni^{56} As^{66} As^{72} Br^{82} Tc^{96} Mo^{99} Sb^{122} I^{124} Sb^{126} Sb^{127} Te^{131m} I^{131} Cs^{132} Ce^{143} Eu^{145} Eu^{146} Gd^{147} Lu^{171} Ta^{177} Re^{186} Au^{198} Bi^{206} Es^{254}	Ca^{47} Sc^{48} Mn^{52} Ni^{56} Ge^{69} As^{72} Br^{77} Tc^{96} La^{140} Eu^{145} Gd^{147} Pm^{148} Tb^{156} Lu^{172} Np^{238} Am^{240} Bk^{246}	Sc^{48} Ge^{69} Tc^{96} Sb^{122} Sn^{125} Te^{131m} Cs^{132} Lu^{172} Tm^{172} Ta^{177} Re^{182} Au^{198} Np^{238} Bk^{246}	Ca^{47} Sc^{48} Ni^{57} As^{66} Sb^{122} Cs^{132} Tb^{156} Ho^{166} Re^{182} Tl^{200} Am^{240}	Mn^{52} Y^{90} Te^{119} I^{124} La^{140} Pm^{148} Ho^{166} Tm^{172}	Ni^{57} Sn^{125}	
Be^{7} Cr^{51} As^{74} Rb^{83} Sr^{85} Tc^{95m} Pd^{103} Ru^{103} In^{114m} Cd^{115m} Te^{121} Sb^{124} I^{126} Ba^{131} Nd^{147} Eu^{148} Pm^{148} Pm^{149} Ir^{190} Ir^{192} Au^{196} Tl^{202} Cm^{241} Es^{253}	As^{74} Zr^{95} Nb^{95} Ru^{103} In^{114m} Cd^{115m} Sb^{124} I^{126} Pm^{148} Tm^{168} Re^{184} Os^{185} Pb^{203} Bi^{205}	Sc^{46} V^{48} Co^{56} Co^{58} Rb^{84} Nb^{92} Tc^{95m} Cs^{136} Eu^{148} Pm^{149} Tb^{160} Tm^{168} Re^{184} Os^{185}	Sc^{46} Co^{56} Fe^{59} Rb^{84} Rb^{86} Nb^{91m} Cd^{115m} Cs^{130} Pm^{148}	V^{48} Co^{56} Fe^{59} Cd^{115m}	Co^{58} Sb^{124} Bi^{205}	V^{48} Co^{56} Rb^{84} Nb^{92} Sb^{124} Eu^{156}	
Rh^{102} Eu^{149}	Rh^{102} Ag^{110m} Te^{127m} Pm^{143} Po^{210}	Mn^{54} Y^{88} Ag^{110m}	Zn^{65} Rh^{102} Sn^{123} Ta^{182}	Lu^{174m} Ta^{182}		Y^{88}	Y^{88}
Sb^{125} Cs^{134} Pm^{144} Po^{208}	Cs^{134} Pm^{144}	Lu^{171}	Co^{60}	Na^{22} Co^{60}			
Kr^{85} Ag^{108m} Bi^{207}	Nb^{94} Tc^{98} Ag^{108m} Eu^{154} Ho^{166m}	Nb^{94} La^{138} Po^{209} Bi^{207}	Eu^{152} Eu^{154}	Eu^{154}	Eu^{152} Bi^{207}		

Nuclear Data for

By H. H. BAUCOM, Jr., *Atomics International, A Division of*

Table 1—Compounds

Material	Density (gm/cm³)	Macroscopic Cross Sections (cm⁻¹) Σ_a	Σ_s
H_2O*	0.998	0.0221	2.67
D_2O*	1.10	3.5/χ	0.449
BeO	3.03	73/χ	0.818
CO_2	198/χ	0.011/χ	24/χ
Sm_2O_3	7.43	143	
Eu_2O_3	7.42	109	
Dy_2O_3	7.81	23.9	
NaK			
56%K	0.890	0.0214	0.0527
78.6%K	0.875	0.0245	0.0335
Terphenyl	0.874 †		
Hastelloy -B	9.24	0.348	1.28
-C	8.94	0.356	1.09
-N	8.79	0.360	1.25
Inconloy	8.01	0.374	1.61
Inconel -X	8.3	0.37	1.88
Rene 41	8.19	0.662	0.904
Stainless Steel			
304	8.03	0.269	0.847
316	8.03	0.239	0.861
347	8.03	0.270	0.854
Carbon Steel SA-212B	8.03	0.240	0.947
Zircaloy-2	6.56	0.0515	2.21
Zircaloy-4	6.53	0.0515	2.21

*Measured diffusion lengths are 2,714 cm for H_2O and 116 cm for D_2O.
$/\chi = 10^{-5}$, †At 600°F

THE USEFULNESS of thermal-neutron-data tabulations has been evidenced by the acceptance of previous compilations (*1, 2*). The present tables update the previous ones and include data useful for first-order shielding calculations.

Atomic weights and densities have, in general, been taken from ref. *3*; densities for structural materials in Table 1 are from vendors' literature. All densities are at or near 20° C; those of gases are at STP. Where densities are available for a number of states, an average value of the cast or amorphous state was normally chosen.

Nuclei per gram are useful in preparing reactor-code input data. Microscopic cross sections (2,200 m/sec) were taken directly from refs. *4* and *5*. The average value of the cosine of the scattering angle, $\bar{\mu}_0$, and the average logarithmic energy decrement, ξ, are those computed by Davis and Hauser (*2*). The γ-ray absorption coefficients and neutron-removal cross sections were computed from refs. *6* and *7*. Resonance integrals from ref. *8* include the $1/v$ contribution, but those from ref. *9* do not contain this contribution. The diffusion coefficient is $D = L^2\Sigma_a$ if L, diffusion length, is measured (*10, 11*); otherwise it is $D = \frac{1}{3}(1 - \bar{\mu}_0)\Sigma_s$.

* * *

This work was performed under the auspices of the U. S. Atomic Energy Commission.

Table 2—Neutron and Gamma-Ray Data, Elements <31

Atomic Number	Element	Atomic Weight	Density (gm/cm³)	Nuclei/gm × 10²⁴	Nuclei/cm³ × 10²⁴	$1-\bar{\mu}_0$	ξ	Microscopic Cross Sections (barns) σ_a	σ_s	Macroscopic Cross Sections (cm⁻¹) Σ_a	Σ_s	Total Mass Attenuation Coefficient for 3-Mev Gamma Rays (cm⁻¹)	Energy Absorption Mass Attenuation Coefficient for 3-Mev Gamma Rays (cm⁻¹)	Macroscopic Removal Cross Section for 8-Mev Neutrons (cm⁻¹)	Resonance Integral (barns)	Diffusion Length (cm)	Diffusion Coefficient (cm)	Atomic Number
1	H	1.008	8.99/χ	0.5977	5.37/χ	0.3386	1.000	0.332	38	1.78/χ	204/χ	0.621/χ	0.360/χ	5.38/χ		5200	482	1
2	He	4.003	17.8/χ	0.1505	2.68/χ	0.8334	0.425	0.007	0.8	0.0188/χ	2.14/χ	0.621/χ	0.361/χ			1.0 χ	0.187χ	2
3	Li	6.940	0.534	0.08681	0.0464	0.9047	0.268	71	1.4	3.29	0.649	0.162	945/χ	0.0469	28	1.31	5.68	3
4	Be	9.013	1.84	0.06684	0.123	0.9259	0.209	0.01	7	123/χ	0.861	0.0576	0.0337	0.132		20.8[d]	0.532	4
5	B[e]	10.82	2.45	0.05568	0.136	0.9394	0.171	795[e]	4	108	0.546	0.0787	0.0453	0.132		0.077	0.650	5
6	C	12.01	1.60	0.05016	0.0803	0.9440	0.158	373/χ	4.8	29.9/χ	0.385	0.0555	0.0322	0.0651		54.4[d]	0.886	6
7	N	14.01	125/χ	0.04301	5.38/χ	0.9524	0.136	1.88	10	10.1/χ	53.8/χ	4.34/χ	2.51/χ			2540	651	7
8	O	16.00	143/χ	0.03765	5.38/χ	0.9583	0.120	20/χ	4.2	108/χ	22.6/χ	5.13/χ	3.05/χ	5.32/χ		3.78χ	1540	8
9	F	19.00	170/χ	0.03171	5.39/χ	0.9649	0.102	0.01	3.9	0.0539/χ	21.0/χ	5.81/χ	3.45/χ	6.95/χ		0.551χ	1640	9
10	Ne	20.18	90/χ	0.02985	2.69/χ	0.9667	0.0968	2.8	2.4	7.52/χ	6.45/χ	3.23/χ	1.93/χ			8430	5350	10
11	Na	22.99	0.971	0.02520	0.0254	0.9710	0.0845	0.525	4.0	0.0134	0.102	0.0338	0.0202		0.27	15.9	3.37	11
12	Mg	24.32	1.74	0.02477	0.0431	0.9722	0.0811	0.069	3.6	297/χ	0.155	0.0626	0.0376		0.045[b]	27.3	2.21	12
13	Al	26.98	2.70	0.02233	0.0603	0.9754	0.0723	0.241	1.4	0.0145	0.0844	0.0956	0.0572	0.0788	0.08[b]	16.7	4.05	13
14	Si	28.09	2.35	0.02145	0.0504	0.9762	0.0698	0.16	1.7	807/χ	0.0857	0.0865	0.0522		0.5	22.2	3.98	14
15	P	30.98	1.83	0.01945	0.0356	0.9785	0.0632	0.20	5	712/χ	0.178	0.0655	0.0395		2	16.4	1.91	15
16	S	32.07	2.1	0.01879	0.0395	0.9792	0.0612	0.52	1.1	0.0205	0.0434	0.0779	0.0473		0.6	19.5	7.84	16
17	Cl	35.46	321/χ	0.01699	5.45/χ	0.9810	0.0561	33.8	16	184/χ	87.3/χ	11.5/χ	6.97/χ	6.42/χ	12	459	389	17
18	A	39.94	178/χ	0.01508	2.68/χ	0.9833	0.0492	0.66	1.5	1.77/χ	4.03/χ	6.02/χ	3.67/χ			0.217χ	8400	18
19	K	39.10	0.87	0.01541	0.0134	0.9829	0.0504	2.07	1.5	0.0278	0.0201	0.0318	0.0194		1.1	24.7	16.9	19
20	Ca	40.08	1.54	0.01503	0.0232	0.9833	0.0492	0.44	~3	0.0102	0.0696	0.0581	0.0356		2	21.8	4.87	20
21	Sc	44.96	2.5	0.01340	0.0335	0.9852	0.0438	24	24	0.804	0.804	0.0883	0.0543		10.7[a]	0.724	0.421	21
22	Ti	47.90	4.5	0.01258	0.0566	0.9861	0.0411	5.8	4	0.328	0.226	0.158	0.968		3.0	2.13	1.49	22
23	V	50.95	5.96	0.01182	0.0705	0.9869	0.0387	5.0	5	0.352	0.352	0.206	0.127		1.6[b]	1.65	0.959	23
24	Cr	52.01	6.92	0.01158	0.0801	0.9872	0.0385	3.1	3.0	0.248	0.240	0.245	0.152		1.9	2.37	1.40	24
25	Mn	54.94	7.42	0.01097	0.0814	0.9878	0.0359	13.2	2.3		1.07	0.187	0.260		9.5[b]	1.30	1.80	25
26	Fe	55.85	7.86	0.01079	0.0848	0.9881	0.0353	2.62	11	0.222	0.933	0.283	0.176	0.168	0.7[b]	1.28	0.362	26
27	Co	58.94	8.71	0.01022	0.0890	0.9887	0.0335	38	7	3.38	0.623	0.310	0.193		48	0.40	0.541	27
28	Ni	58.71	8.75	0.01026	0.0898	0.9887	0.0335	4.6	17.5	0.413	1.57	0.326	0.204	0.166	1.1[b]	0.228	0.215	28
29	Cu	63.54	8.94	0.009482	0.0848	0.9896	0.0309	3.85	7.2	0.326	0.610	0.321	0.201	0.173	1.2[b]	1.30	0.552	29
30	Zn	65.38	7.14	0.009215	0.0658	0.9897	0.0304	1.1	3.6	0.0724	0.237	0.259	0.163		1.18[b]	4.43	1.42	30

$/\chi = 10^{-5}$, $\chi = 10^5$, a = Activation integral (Ref 8), b = (Ref 9), c = Activation Cross Section, d = Measured, e = See Table 3

Table 2 (Cont.)—Neutron and Gamma-Ray Data, Elements 30 <Z <88

Atomic Number	Element	Atomic Weight	Density (gm · cm^{-3})	Nuclei · gm^{-1} x 10^{24}	Nuclei · cm^{-3} x 10^{24}	$1-\bar{\mu}_0$	ξ	Microscopic Cross Sections (barns) σ_a	Microscopic Cross Sections (barns) σ_s	Macroscopic Cross Sections (cm^{-1}) Σ_a	Macroscopic Cross Sections (cm^{-1}) Σ_s	Total Mass Attenuation Coefficient for 3 Mev Gamma Rays (cm^{-1})	Energy Absorption Mass Attenuation Coefficient for 3 Mev Gamma Rays (cm^{-1})	Macroscopic Removal Cross Section for 8 Mev Neutrons (cm^{-1})	Resonance Integral (barns)	Diffusion Length (cm)	Diffusion Coefficient (cm)	Atomic Number
31	Ga	69.72	5.90	0.008641	0.0510	0.9905	0.0283	2.8	4	0.143	0.204	0.208	0.131		9.2[a]	3.40	1.65	31
32	Ge	72.60	5.46	0.008298	0.0453	0.9909	0.0271	2.45	3	0.111	0.136	0.192	0.121			4.72	2.48	32
33	As	74.91	3.70	0.008042	0.0298	0.9911	0.0264	4.3	6	0.128	0.179	0.131	0.0829		33	3.84	1.88	33
34	Se	78.96	4.5	0.007630	0.0343	0.9916	0.0251	12.3	11	0.422	0.378	0.156	0.0990			1.45	0.890	34
35	Br	77.916	3.12	0.007539	0.0235	0.9917	0.0247	6.7	6	0.158	0.141	0.110	0.0705		147[a]	3.88	2.38	35
36	Kr	83.80	371/χ	0.007189	2.67/χ	0.9921	0.0236	31	7.2	82.7/χ	19.2/χ	13.0/χ	8.27/χ			1460	1750	36
37	Rb	85.48	1.53	0.007048	0.0108	0.9922	0.0233	0.73		787/χ		0.0540	0.0360					37
38	Sr	87.63	2.54	0.006875	0.0175	0.9925	0.0226	1.21	10	0.0211	0.175	0.0902	0.0579		16	9.54	1.92	38
39	Yt	88.92	5.51	0.006775	0.0373	0.9925	0.0223	1.31		0.0489		0.199	0.128		0.91[a]			39
40	Zr	91.22	6.44	0.006604	0.0425	0.9927	0.0218	0.185	8	787/χ	0.340	0.234	0.151		3	11.2	0.987	40
41	Nb	92.91	8.4	0.006484	0.0545	0.9928	0.0214	1.16	5	0.0632	0.272	0.309	0.200		13[b]	4.42	1.23	41
42	Mo	95.95	10.2	0.006279	0.0641	0.9931	0.0207	2.70	7	0.173	0.448	0.373	0.242		19[b]	2.08	0.749	42
43	Tc	99		0.006085		0.9932	0.0203	22							60[b]			43
44	Ru	101.1	12.1	0.005959	0.0721	0.9934	0.0197	2.56	6	0.185	0.433	0.431	0.367			2.05	0.776	44
45	Rh	102.91	12.4	0.005854	0.0726	0.9935	0.0193	149	5	10.8	0.363	0.451	0.386		575	0.292	0.924	45
46	Pd	106.4	12.2	0.005646	0.0689	0.9937	0.0187	8.0	3.6	0.551	0.248	0.449	0.294		23	1.57	1.35	46
47	Ag	107.88	10.5	0.005585	0.0586	0.9938	0.0184	63	6	3.69	0.352	0.393	0.258		810[b]	0.508	0.953	47
48	Cd	112.41	8.65	0.005359	0.0464	0.9940	0.0178	2450	7	114	0.325	0.318	0.210			0.0949	1.03	48
49	In	114.82	7.28	0.005247	0.0382	0.9942	0.0173	191	2.2	730	0.0840	0.269	0.178		3600[b]	0.739	3.99	49
50	Sn	118.70	7.29	0.005075	0.0370	0.9944	0.0167	0.625	4	0.0231	0.148	0.267	0.177		8.5[b]	9.90	2.27	50
51	Sb	121.76	6.22	0.004948	0.0308	0.9945	0.0163	5.7	4.3	0.175	0.132	0.228	0.152		115	3.80	2.53	51
52	Te	127.61	6.02	0.004721	0.0284	0.9948	0.0155	4.7	5	0.134	0.142	0.216	0.144		72[b]	4.20	2.36	52
53	I	126.91	4.94	0.004747	0.0235	0.9948	0.0157	7.0	3.6	0.164	0.0844	0.183	0.122		180[b]	4.92	3.97	53
54	Xe[e]	131.30	585/χ	0.004588	2.68/χ	0.9949	0.0152	e	4.3	e	15.4/χ	21.4/χ	14.3/χ				2180	54
55	Cs	132.91	1.87	0.004533	0.00851	0.9950	0.0150	28.0		0.238		0.0694	0.0466		490[b]			55
56	Ba	137.36	3.5	0.004386	0.0154	0.9951	0.0145	1.2	8	0.0184	0.123	0.129	0.0868		7.5	12.2	2.73	56
57	La	138.92	6.15	0.004337	0.0267	0.9952	0.0143	8.9		0.237		0.229	0.154		11			57
58	Ce	140.13	6.9	0.004299	0.0297	0.9952	0.0142	0.73		0.0217		0.260	0.177					58
59	Pr	140.92	6.48	0.004275	0.0277	0.9953	0.0141	11.3		0.313		0.249	0.166		7			59
60	Nd	144.27	6.96	0.004176	0.0291	0.9954	0.0138	46		1.34		0.267	0.182		40			60
61	Pm	147		0.004155		0.9954	0.0137	150										61
62	Sm[e]	150.35	7.75	0.004007	0.0311	0.9956	0.0133	5600[e]		174		0.298	0.205					62
63	Eu	152.0	5.22	0.003964	0.0207	0.9956	0.0131	4300	8	89.0	0.166	0.204	0.140		2100[b]	0.151	2.02	63
64	Gd	157.26	7.95	0.003831	0.0305	0.9958	0.0127	0.462χ		1410		0.307	0.212					64
65	Tb	158.93	8.33	0.003791	0.0316	0.9958	0.0125	46		1.45		0.324	0.223					65
66	Dy	162.51	8.56	0.003707	0.0317	0.9959	0.0122	950	100	30.1	3.17	0.334	0.230			0.058	0.105	66
67	Ho	164.94	8.76	0.003653	0.0320	0.9960	0.0121	65		2.08		0.343	0.238					67
68	Er	167.27	4.77	0.003602	0.0172	0.9960	0.0119	173		2.97		0.188	0.131					68
69	Tm	168.94	9.35	0.003566	0.0333	0.9961	0.0118	127	7	4.23	0.233	0.372	0.260			0.582	1.43	69
70	Yb	173.04	7.01	0.003482	0.0244	0.9961	0.0115	37	12	0.903	0.293	0.280	0.197			1.12	1.14	70
71	Lu	174.99	9.74	0.003443	0.0335	0.9962	0.0114	112		3.76		0.393	0.275		720			71
72	Hf	178.5	13.3	0.003375	0.0449	0.9963	0.0112	105	8	4.71	0.359	0.536	0.376		2850[b]	0.444	0.931	72
73	Ta	180.95	16.6	0.003329	0.0553	0.9963	0.0110	21	5	1.16	0.276	0.674	0.475		1100[b]	1.02	1.21	73
74	W	183.86	18.9	0.003277	0.0619	0.9964	0.0108	19.2	5	1.19	0.310	0.771	0.544	0.155	330[b]	0.953	1.08	74
75	Re	186.22	29.35	0.003235	0.0950	0.9964	0.0107	86	14	8.16	1.33	1.21	0.855		620[a]	0.175	0.252	75
76	Os	190.2	22.5	0.003167	0.0734	0.9965	0.0105	15.3		1.12		0.925	0.657					76
77	Ir	192.2	22.4	0.003135	0.0782	0.9965	0.0104	440		30.9		0.925	0.689		2190[a]			77
78	Pt	195.09	21.4	0.003088	0.0661	0.9966	0.0102	8.8	10	0.582	0.661	0.892	0.638		185[b]	0.932	0.506	78
79	Au	197.0	19.3	0.003058	0.0590	0.9966	0.0101	98.8	9.3	5.83	0.549	0.813	0.583		1513[b]	0.323	0.609	79
80	Hg	200.61	13.6	0.003003	0.0408	0.9967	0.0099	380	20	15.5	0.817	0.575	0.413		73	0.163	0.410	80
81	Tl	204.39	11.9	0.002948	0.0351	0.9967	0.0098	3.4	14	0.119	0.491	0.503	0.363		38[a]	2.39	0.681	81
82	Pb	207.21	11.3	0.002907	0.0329	0.9968	0.0096	0.170	11	559/χ	0.361	0.481	0.347	0.122	0.050[b]	12.9	0.925	82
83	Bi	209.00	9.7	0.002883	0.0280	0.9968	0.0095	0.034	9	95.1/χ	0.252	0.418	0.303	0.098	0.050[b]	37.2	1.33	83
84	Po	210	9.24	0.002869	0.0265	0.9968	0.0095					0.404	0.293					84
85	At	210		0.002869		0.9968	0.0094											85
86	Rn	222	973/χ	0.002714	2.64/χ	0.9970	0.0090	0.2[c]		0.528/χ		41.8/χ	30.6/χ					86
87	Fr	223		0.002702		0.9980	0.0089											87

/χ = 10^{-5}, χ = 10^{5}, a = Activation integral (Ref 8), b = (Ref 9) c = Activation Cross Section, d = Measured, e = See Table 3

(Continued on following page)

Table 3—Neutron and Gamma-Ray Data, Selected Nuclides

Atomic Number	Element	Isotope	Atomic Weight	Density (gm · cm⁻³)	Nuclei · gm⁻¹ × 10²⁴	Nuclei · cm⁻³ × 10²⁴	ξ	Microscopic Cross Sections (barns) σ_a	σ_s	σ_f	Macroscopic Cross Sections (cm⁻¹) Σ_a	Σ_s	Total Mass Attenuation Coefficient for 3-Mev Gamma Rays (cm⁻¹)	Energy Absorption Mass Attenuation Coefficient for 3-Mev Gamma Rays (cm⁻¹)	Macroscopic Removal Cross Section for 8-Mev Neutrons (cm⁻¹)	Resonance Integral (barns)	Diffusion Length (cm)	Diffusion Coefficient (cm)
88	Ra		226.05	5	0.002665	0.0133	0.0088						0.0220	0.0161				
		223						130[c]		100								
		226						20[c]		10/χ	0.266							
		228						36[c]		2								
89	Ac	227					0.0088	510		2								
90	Th			11.5														
		227								1500								
		228						123[c]		0.3								
		230						27		0.001								
		232	232		0.002597	0.0299	0.0086	7.56	12.5	20/χ	0.226	0.374	0.511	0.377		106[b]	2.7[d]	1.65
91	Pa			15.4														
		230								1500								
		231			0.002608	0.0402	0.0086	200		0.010			0.703	0.518				
		(UX_2) 234								500								
		(UZ) 234								5000								
92	U		238.07	18.7	0.002531	0.0473	0.0084	7.68	8.3	4.18	0.363	0.393	0.842	0.625	0.170		1.55[d]	3.08
		233	233		0.002586	0.0484		581		527	28.1		0.861	0.638				
		234						105		0.65								
		235	235		0.002564	0.0479		694	10	582	33.3	0.479	0.853	0.633				
		238	238		0.002531	0.0473		2.71		50/χ	0.128		0.842	0.624		285[b]		
93	Np																	
		236								2800								
		237					0.0084	170		0.019						870[b]		
		238								1600								
		239						35[c]		3								
94	Pu			19.74		0.0492	0.0083						0.909	0.678				
		237								2000								
		239						1026	9.6	746	50.5	0.472						
		240						286		0.1	14.1					11,300		
		241						1400		1025	68.8							
		242	242		0.002490	0.0492		30		0.2	1.47							
		244						1.8[c]			0.088							
95	Am						0.0082											
		241						630		3.1								
		242						8000		6400								
		243						74[c]		0.075								
96	Cm						0.0081											
		243						500		700								
		245								1900								
		248						6[c]										
97	Bk	249	249				0.0081	500[c]										
98	Cf						0.0079											
		249						900		600								
		250						1500[c]										
		251						3000[c]										
		252						30[c]										
99	E						0.0079											
		253						300[c]										
		254						2700[c]										
100	Fm	253	253				0.0078											
101	Mv	256	256				0.0077											
5	B	10		2.45	0.06025	0.148		4017			595							
54	Xe			585/χ														
		124			0.004859	2.84/χ		74			210/χ							
		135			0.004463	2.61/χ		27.2χ			71.0							
62	Sm			7.75														
		147			0.004099	0.0318		87			2.77					1,350[b]		
		149			0.004044	0.0313		0.408χ			1280							
		151			0.003990	0.0309		0.124χ			383							
		152			0.003964	0.0307		216			6.63					2,850[b]		

/χ = 10^{-5}, χ = 10^{5}, a = Activation integral (Ref 8), b = (Ref 9) c = Activation Cross Section, d = Measured

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Fission-Product Yields from Neutron-Induced Fission

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FISSION of a heavy nucleus, such as U^{235}, by thermal neutrons results in two fission fragments that recede from each other with a total kinetic energy of about 165 Mev. In general, their masses are unequal—the most probable heavy mass is ~139, and the most probable light mass is ~95. However, products have been found in detectable amounts throughout the mass region 72–166.

The percent probability per fission of forming a given nuclide, or a given chain, is defined as its fission yield. Since the fission fragments are formed with an excess of neutrons, they undergo a series of β^- decays, in a "chain," until they attain stability (Table 3).

Fission yields can be determined by radiochemical or mass-spectrometric means.

In the radiochemical method, the number of fissions can be determined by direct fission counting of a small aliquot of the fissionable material exposed simultaneously to the same neutron flux as the main sample. Alternatively, the number of atoms undergoing fission can be derived from a flux monitor (e.g., Co) whose activation cross section is known relative to the fission cross section of the isotope under study. The irradiated sample is radiochemically analyzed for the radionuclides of interest. Their absolute disintegration rates are usually determined by 4π beta counting, by gas-phase counting or by measurements with calibrated end-window beta counters. In many investigations, the number of fissions was not determined; only relative yields of fission products were measured with Ba^{140} or Mo^{99} serving as the standard. In other experiments, the ratios of fission products from a given fissionable nucleus were compared with the corresponding ratios from the thermal-neutron fission of U^{235}.

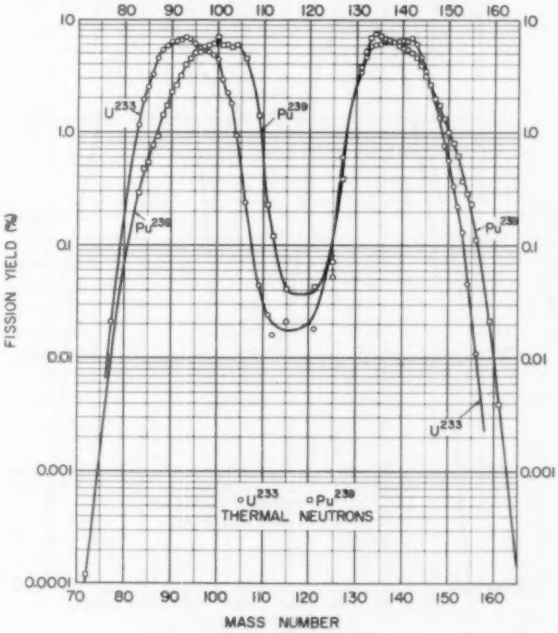
The mass-spectrometric method (*1*) has been applied to the measurement of fission yields of stable and long-lived isotopes of Kr, Rb, Sr, Zr, Mo, Ru, Xe, Cs, Ba, Ce, Nd and Sm. The absolute number of atoms of each nuclide can be determined by the isotope-dilution technique. The number of fissions can be determined by measuring the change in the B^{10}/B^{11} ratio in a BF_3 flux monitor irradiated simultaneously in the same neutron flux as the fission sample. Conversion to fissions is effected by use of the known ratio of the B^{10} absorption cross section to the fission cross section; for example, many of the yields from U^{235} thermal-neutron fission were measured in this way (*2*). In other mass-spectrometric work, only the relative yields have been measured.

The following tables and graphs constitute a revision of an earlier compilation (*3*). First priority was given to mass-spectrometric data since these are usually more accurate (±3%) than most of the radiochemical data (±10%). Where duplicate results were about equally reliable, these were averaged, as indicated in the references to the tables. When one value was considered superior to the others, only that one was selected. Where reported fission-yield values are dependent on the corresponding yields from U^{235} thermal-neutron fission, suitable adjustment was made to the data for U^{235} given in this compilation.

No attempt was made to correct any of the values for the transfer of yield from one mass chain to the next lower one by delayed-neutron emission. However, all the yields have been corrected for known perturbations resulting from neutron capture by the fission products.

It has been shown (*4, 5*) in studies of nuclear-charge distribution in fission that in most cases the last two or three members of a fission-product chain are formed almost exclusively from the decay of precursors. In general, only small fractions of the yields of the last two members result from direct formation as primary fission fragments. Therefore a

U^{233}, Pu^{239} Fission-Product Distribution



fission yield measured for any of the later members of a chain usually represents the total yield of that chain. Occasionally the fission yield of a product is lower than that of the corresponding total chain yield because of chain branching to isomers. For example, the total yield of Rb^{85} and of total mass 85 is 1.30% (Table 3), but the yield of 10.6-yr Kr^{85} is only 0.293%. The difference (1.30% − 0.29%) represents the yield of the isomeric 4.4-hr Kr^{85m}. In some cases, the differences between values for different fission products within a chain are due to experimental error.

The thermal-neutron fission yields of nearly all shielded nuclides are extremely low because these nuclides cannot result from the decay of neutron-rich precursors (*4, 5*). Values for some of these yields are included in Tables 1 and 2.

Attempts to detect ternary fission by analysis for radioactive products such as 53-day Be^7, 3×10^6-yr Be^{10}, 87-day S^{35}, 4.8-day Ca^{47} and 46-day Fe^{59} have failed (*6*). Upper limits for their fission yields range from 1×10^{-5}% to 4×10^{-4}%. One exception has been reported recently (*7*)—tritium was found to occur in the fission of U^{235} with a yield of ~0.01%. He^4, well known as a ternary fission product, has been observed as α-particles with yields of ~0.3% from thermal-neutron fission of U^{233}, U^{235} and Pu^{239}.

No half-lives shorter than 1 sec are listed in Table 3. Such very short periods would be rare even if it were not for the experimental difficulty of identifying them. As Brolley et al. (*8*) have shown from studies of gross β-ray and γ-ray fission-product activities, no periods below a few tenths of a second are formed in appreciable yield.

Most of the fission-yield data of Tables 1–3 are plotted in the figures. The sum of the yields under each peak is very close to 100%, as expected for binary fission. This requirement of summation to 100% each, for the light and heavy groups of fission products, was used as an aid in normalizing some of the data in Tables 1 and 2. Small "fine-structure" peaks are shown in some of these yield-vs.-mass curves. For U^{235}, these are at masses 100 and 134; they may result from a preference for the formation of fragments with a closed neutron shell.

The U^{235} curves illustrate the effect on mass distribution of increasing the neutron energy above thermal. The greatest change is the increase in the probability of symmetric fission. For 14-Mev-neutron fission, the increase is about 100-fold; for a fission-neutron spectrum, the increase is fourfold. The other changes are a small drop in the peak yields and a moderate increase in the most asymmetric modes of fission, i.e., a rise in the wings of the yield-vs.-mass curve. In recent studies (*9*) of fission induced by neutrons at resonance energies, small changes have also been observed in the ratio of peak to valley yields.

The half-lives and branching ratios were selected from the compilation by D. Strominger et al. (*10*), from "Nuclear Data Sheets" and from a survey of the most recent literature.

* * *

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Mass Distribution of U^{235}, U^{238} and Th^{232} Fission Products

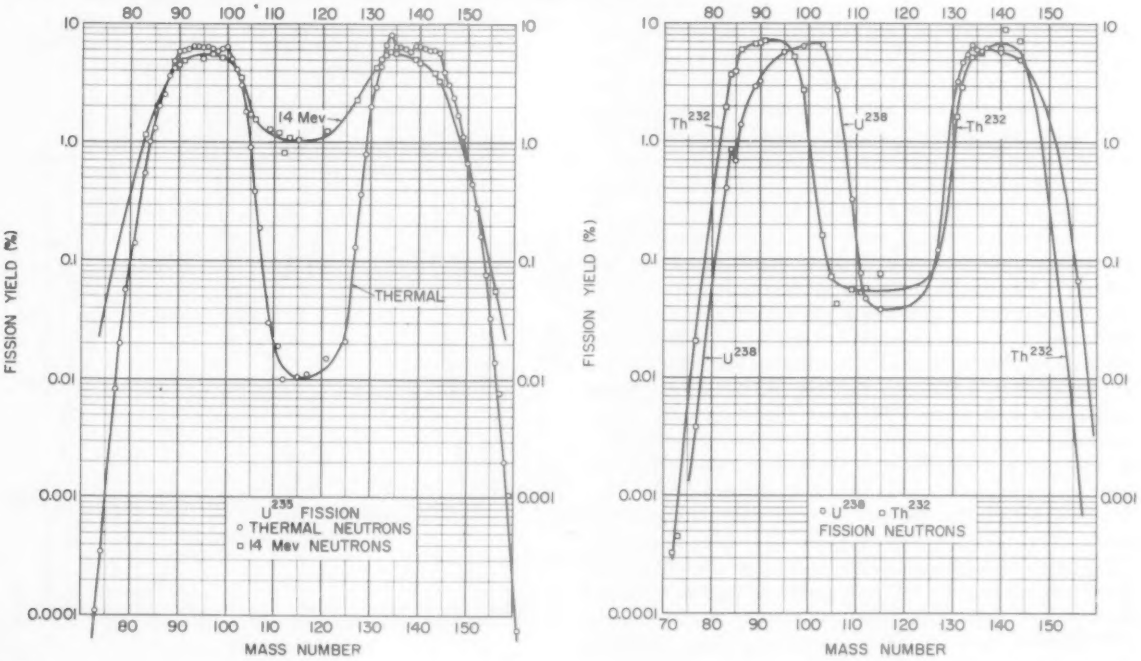


TABLE 1—Thermal-Neutron Fission Yields (%) from U^{233}, U^{235} and Pu^{239}

Fission product	U^{233}	U^{235}	Pu^{239}
47-h Zn^{72}		1.6×10^{-5}	1.2×10^{-4}
4.9-h Ga^{73}		1.1×10^{-4}	
7.8-m Ga^{74}		3.5×10^{-4}	
11.3-h Ge^{77}	0.011	0.0031	
38.7-h As^{77}	0.021	0.0083	
2.1-h Ge^{78}		0.020	
91-m As^{78}		0.020	
9.0-m As^{79}		0.056	
total Br^{80}	3.9×10^{-4}	1.0×10^{-5}	
57-m Se^{81m}		0.0084	
18.4-m Se^{81}		0.14	
35.9-h Br^{82}	1.1×10^{-3}	4×10^{-5}	
25-m Se^{83}		0.22	
2.4-h Br^{83}	0.87	0.51	0.084
stable Kr^{83}	1.17	0.544	0.29
6.0-m Br^{84}		0.019	
31.8-m Br^{84}		0.92	
stable Kr^{84}	1.95	1.00	0.47
39-s Se^{85}		~1.1	
10.6-y Kr^{85}	0.58	0.293	0.127
stable Rb^{85}	2.51	1.30	0.539
stable Kr^{86}	3.27	2.02	0.76
18.6-d Rb^{86}	2.3×10^{-4}	2.9×10^{-5}	2.3×10^{-5}
16-s $Se^{(87)}$		~2	
5×10^{10}-y Rb^{87}	4.56	2.49	0.92
stable Sr^{88}	5.37	3.57	1.42
50.5-d Sr^{89}	5.86	4.79	1.71
28-y Sr^{90}	6.43	5.77	2.25
9.7-h Sr^{91}	5.57	5.81	2.43
58-d Y^{91}	5.1	~5.4	2.9
stable Zr^{91}	6.43	5.84	2.61
2.7-h Sr^{92}		5.3	
stable Zr^{92}	6.64	6.03	3.14
10.3-h Y^{93}		6.1	
1.1×10^{6}-y Zr^{93}	6.98	6.45	3.97
stable Zr^{94}	6.68	6.40	4.48
65-d Zr^{95}	6.1	6.2	5.8
stable Mo^{95}	6.11	6.27	5.03
stable Zr^{96}	5.58	6.33	5.17
23-h Nb^{96}	6.5×10^{-3}	6.1×10^{-4}	3.6×10^{-3}
17.0-h Zr^{97}		5.9	5.5
stable Mo^{97}	5.37	6.09	5.65
52-m Nb^{98}	0.20	0.064	0.20
stable Mo^{98}	5.15	5.78	5.89
66.5-h Mo^{99}	4.80	6.06	6.10
stable Mo^{100}	4.41	6.30	7.10
stable Ru^{101}	2.91	5.0	5.91
stable Ru^{102}	2.22	4.1	5.99
39.7-d Ru^{103}	1.8	3.0	5.67
stable Ru^{104}	0.94	1.8	5.93
4.45-h Ru^{105}		0.9	
36-h Rh^{105}			3.9
1.01-y Ru^{106}	0.24	0.38	4.57
22-m Rh^{107}		0.19	
13.4-h Pd^{109}	0.044	0.030	1.40
7.6-d Ag^{111}	0.024	0.019	0.23
21.0-h Pd^{112}	0.016	0.010	0.12
43-d Cd^{115m}	0.0011	0.0007	0.0031
53-h Cd^{115}	0.020	0.0097	0.0038
total 115	0.021	0.0104	0.041
3.0-h Cd^{117m}		0.011	
27.5-h Sn^{121}	0.018	0.015	0.043
136-d Sn^{123}		0.0013	
9.6-d Sn^{125}	0.052	0.013	0.071
2.0-y Sb^{125}		0.021	
91-h Sb^{127}	0.60	0.13	0.39
105-d Te^{127m}		0.035	
57-m Sn^{128}		0.37	
25.0-m I^{128}		3×10^{-5}	
37-d Te^{129m}		0.35	
1.7×10^{7}-y I^{129}		0.8	
2.6-m Sn^{130}		2.0	
12.6-h I^{130}		5×10^{-4}	
30-h Te^{131m}		0.44	
8.05-d I^{131}	2.9	~3.1	3.77
stable Xe^{131}	3.39	2.93	3.78
77-h Te^{132}	4.4	~4.7	5.1
stable Xe^{132}	4.64	4.38	5.26
20.8-h I^{133}		~6.9	5.2
5.27-d Xe^{133}		6.62	6.91
stable Cs^{133}	5.78	6.59	6.91
52.5-m I^{134}		7.8	
stable Xe^{134}	5.95	8.06	7.47
6.7-h I^{135}	5.5	6.1	5.7
9.2-h Xe^{135}		6.3	
2.6×10^{6}-y Cs^{135}	6.03	6.41	7.17
86-s I^{136}	1.8	3.1	2.1
stable Xe^{136}	6.63	6.46	6.63
13-d Cs^{136}	0.12	0.0068	0.11
30-y Cs^{137}	6.58	6.15	6.63
stable Ba^{137}		5.74	6.31
83-m Ba^{139}	6.45	6.55	5.87
12.8-d Ba^{140}	5.4	6.35	5.4
stable Ce^{140}	6.47	6.44	5.60
3.8-h La^{141}	7.1	6.4	5.7
33-d Ce^{141}		~6.0	5.1
stable Pr^{141}	6.4		(4.5)*
stable Ce^{142}	6.83	6.01	5.01
33-h Ce^{143}		5.7	5.3
stable Nd^{143}	5.99	6.03	4.57
280-d Ce^{144}	4.5	~6.0	3.79
5×10^{15}-y Nd^{144}	4.61	5.62	3.93
stable Nd^{145}	3.47	3.98	3.13
stable Nd^{146}	2.63	3.07	2.60
11.1-d Nd^{147}		~2.7	2.2
2.6-y Pm^{147}	1.9		1.94
1.3×10^{11}-y Sm^{147}	1.98	2.36	2.07
stable Nd^{148}	1.34	1.71	1.73
53.1-h Pm^{149}			1.4
stable Sm^{149}	0.76	1.13	1.32
stable Nd^{150}	0.56	0.67	1.01
80-y Sm^{151}	0.335	0.44	0.80
stable Sm^{152}	0.220	0.281	0.62
47-h Sm^{153}	0.11	0.15	0.37
stable Eu^{153}	0.13	0.169	
stable Sm^{154}	0.045	0.077	0.29
24-m Sm^{155}		0.033	0.23
4-y Eu^{155}		0.033	
15.4-d Eu^{156}	0.011	0.014	0.11
15.4-h Eu^{157}		0.0078	
60-m Eu^{158}		0.002	
18.0-h Gd^{159}		0.00107	0.021
6.9-d Tb^{161}		7.6×10^{-5}	0.0039
82-h Dy^{166}			6.8×10^{-5}

* Estimated total chain yield.

(*References at top of following page*)

References for Table 1 (preceding page):

U^{233}. Yields from U^{233} for stable and longer-lived radioactive nuclides are derived from D. R. Bidinosti, D. E. Irish, R. H. Tomlinson, Chalk River Symposium on Nuclear Chemistry, September, 1960; M. P. Anikina et al. in "Proceedings of Second International Conference on the Peaceful Uses of Atomic Energy," vol. 15, p. 446 (United Nations, New York, 1959); E. P. Steinberg et al., *Phys. Rev.* **95**, 867 (1954); W. Fleming et al., *Can. J. Phys.* **32**, 522 (1954); E. A. Melaika et al., *Can. J. Chem.* **33**, 830 (1955).

Radiochemically determined yields: D. C. Santry, L. Yaffe, *Can. J. Chem.* **38**, 421 (1960); R. M. Bartholomew et al., *Can. J. Chem.* **37**, 660 (1959); E. P. Steinberg, L. E. Glendenin, in "Proceedings of [First] International Conference on the Peaceful Uses of Atomic Energy," vol. 7, p. 3 (United Nations, New York, 1956).

U^{235}. See references for Table 3.

Pu^{239}. Yields from Pu^{239} for stable and longer-lived radioactive nuclides are derived from H. R. Fickel, R. H. Tomlinson, *Can. J. Phys.* **37**, 916, 926 (1959); K. Fritze et al., in "Proceedings of Second International Conference on the Peaceful Uses of Atomic Energy," vol. 15, p. 436; M. P. Anikina et al., *op. cit.*; D. M. Wiles et al., *Can. J. Chem.* **34**, 193 (1956).

Radiochemically determined yields: L. R. Bunney et al. in "Proceedings of Second International Conference on the Peaceful Uses of Atomic Energy," vol. 15, p. 444; R. M. Bartholomew et al., *op. cit.*; G. P. Ford et al., LA-1997 (1956); E. P. Steinberg, M. S. Freedman in "Radiochemical Studies: The Fission Products," C. D. Coryell, N. Sugarman, eds., NNES IV-9, p. 1378 (McGraw-Hill, New York, 1951).

TABLE 2—Fission-Product Yields from Fission Induced by Fission-Spectrum Neutrons (Fast) and by 14-Mev Neutrons

*Fission product**	U^{235} *(fast)*	Pu^{239} *(fast)*	U^{238} *(fast)*	Th^{232} *(fast)*	U^{235} *(14 Mev)*	U^{238} *(14 Mev)*
Zn^{72}				3.3×10^{-4}		
Ga^{73}				4.5×10^{-4}		
Ge^{77}				0.009		
As^{77}			0.0038	0.020		
Br^{82}					0.004	
Br^{83}				1.9	1.16	0.62
Kr^{83}			0.40	1.99		
Br^{84}						1.1
Kr^{84}			0.85	3.65		
Kr^{85}			0.153	0.87		
Kr^{86}			1.38	6.0		
Sr^{89}			2.9	6.7	4.5	2.7
Sr^{90}	5.0	2.2	3.2	6.8	4.5	3.1
Sr^{91}				7.2	4.9	3.6
Y^{91}						2.8
Y^{93}						4.5
Zr^{95}			5.7		5.0	5.2
Nb^{96}					0.003	
Zr^{97}		5.2		5.2	5.6	5.8
Mo^{99}	6.1	6.0	6.3	2.7	5.17	5.7
Mo^{101}						5.5
Mo^{102}						3.9
Ru^{103}			6.6	0.16	3.5	
Ru^{105}						2.3
Rh^{105}				0.07	1.70	3.4
Ru^{106}			2.7	0.042	1.58	
Pd^{109}	0.146	2.0	0.32	0.055	1.31	1.2
Ag^{111}	0.071		0.076	0.052	1.20	0.96
Pd^{112}	0.041	0.14	0.046	0.057	0.81	0.69
Ag^{113}					1.1	0.85
Cd^{115m}			0.003	0.003	0.062	0.06
Cd^{115}	0.038	0.067	0.034	0.072	1.00	0.64
total 115			0.037	0.075	1.06	0.70
Sn^{121}					1.23	0.96
Sn^{125}					1.34	0.45
Sb^{127}				0.12	2.28	1.7
Sb^{129}						1.4
I^{131}				1.2	4.3	4.8
Xe^{131}				3.2	1.62	(4.3)†
Te^{132}				4.7	2.4	4.2
I^{132}						4.7
I^{132}						5.0
Xe^{132}				4.7	2.87	(5.0)†
I^{133}						5.4
Xe^{133}						6.6
Cs^{133}				5.5		(5.6)†
I^{134}						5.3
Xe^{134}				6.6	5.38	(5.9)†
I^{135}						4.5
Xe^{135}						5.5
Cs^{135}				6.0		(5.7)†
Xe^{136}				5.9	5.65	
Cs^{136}						0.23
Cs^{137}	6.3	6.8	6.2	6.3		
Ba^{139}						5.0
Ba^{140}		5.0	5.7	6.2		4.6
Ce^{141}				9.0		
Ce^{143}						3.9
Pr^{143}						3.6
Ce^{144}	5.0		4.5	7.1	3.3	3.2
Nd^{147}	2.3		2.6			3.3
Pm^{149}	1.1		1.8			2.0
Sm^{153}	0.21	0.48	0.41			0.39
Eu^{156}	0.025		0.071		0.055	0.12
Gd^{159}	0.0034		0.0084			
Tb^{161}	4.6×10^{-4}		0.0016			

* For half-lives, see Table 1, with the exception of Mo^{101} (14.6 m), Mo^{102} (11.5 m), Sb^{129} (4.6 h), I^{132} (2.3 h) and Pr^{143} (13.7 d).
† Estimated total chain yield.

References for Table 2:

U^{235}, U^{238} fast-neutron yields: G. P. Ford et al., LA-1997 (1956); L. R. Bunney et al. in "Proceedings of Second International Conference on the Peaceful Uses of Atomic Energy," vol. 15, p. 449 (United Nations, New York, 1959).

Pu^{239} fast-neutron yields: G. P. Ford et al., *op. cit.*; D. W. Engelkemeir et al., in "Radiochemical Studies: The Fission Products," C. D. Coryell, N. Sugarman, eds., NNES IV-9, p. 1331 (McGraw-Hill Book Co., Inc., New York, 1951).

U^{238} fast-neutron yields: R. N. Keller et al., *Phys. Rev.* **94**, 969 (1954); D. W. Engelkemeir et al., *op. cit.*, p. 1375; R. K. Wanless, H. G. Thode, *Can. J. Phys.* **33**, 541 (1955); J. Terrell et al., LADC-1463. Data are normalized to Mo^{99} absolute yield determined by last authors; Xe yields are normalized to Te^{132} yield.

Th^{232} fast-neutron yields: A. Turkevich, J. B. Niday, *Phys. Rev.* **84**, 52 (1951); T. J. Kennett, H. G. Thode, *Can. J. Phys.* **35**, 969 (1957).

U^{235} 14-Mev-neutron yields: G. P. Ford et al., *op. cit.*; A. C. Wahl, *Phys. Rev.* **99**, 730 (1955); J. Terrell et al., LADC-1463; A. N. Protopopov et al., *Atomnaya Energ.* **5**, 130 (1958).

U^{238} 14-Mev-neutron yields: J. G. Cuninghame, *J. Inorg. & Nuclear Chem.* **5**, 1 (1957); A. N. Protopopov et al., *op. cit.*; G. P. Ford et al., *op. cit.*; R. H. James, D. J. Silvester, G. R. Martin, private communication from G. R. Martin, September, 1960.

TABLE 3—Decay Chains and Yields from Thermal-Neutron Fission of U^{235}

Bold-face underlined numbers give experimental fission yields. Last fission yield along any chain usually represents total chain yield. Lower values for yields of earlier chain members may be caused by (1) direct formation in fission of later chain members, (2) chain branching, (3) experimental uncertainty. Latter accounts for cases where early chain member has higher yield than later one. Where branching occurs, arrows are shown only for decay modes observed experimentally; fraction in each branch is given where known. Parentheses indicate nuclide probably occurs in fission but has not been so observed. References for fission yields are cited following the chains.

TABLE 3 (Continued)—Decay Chains and Yields from Thermal-Neutron Fission of U^{235}

72. 47-h Zn^{72} → 14.1-h Ga^{72} → stable Ge^{72} *(1,2)*
1.6 x 10^{-5}

72. (2-m Zn^{73}) → 4.9-h Ga^{73} → stable Ge^{73} *(2)*
1.1 x 10^{-4}

74. 7.8-m Ga^{74} → stable Ge^{74} *(64)*
0.00035

77. 54-s Ge^{77m} (0.78 → 38.7-h As^{77}; 0.22 → 11.3-h Ge^{77}) → 38.7-h As^{77} → stable Se^{77} *(3,4)*
38.7-h As^{77}: 0.0083; 11.3-h Ge^{77}: 0.0031

78. 2.1-h Ge^{78} → 91-m As^{78} → stable Se^{78} *(3,4)*
2.1-h Ge^{78}: 0.020; 91-m As^{78}: 0.020

79. 9.0-m As^{79} → 3.89-m Se^{79m}; 9.0-m As^{79} → ~6 x 10^4-y Se^{79} → stable Br^{79} *(5)*
9.0-m As^{79}: 0.056

81. 57-m Se^{81m} → 18.4-m Se^{81} → stable Br^{81} *(6)*
57-m Se^{81m}: 0.0084; 18.4-m Se^{81}: 0.14

83. 69-s Se^{83m} (>0.90 → 2.4-h Br^{83}; <0.10 → 25-m Se^{83}) → 2.4-h Br^{83} → 114-m Kr^{83m} → stable Kr^{83} *(7-11)*
2.4-h Br^{83}: 0.51; 25-m Se^{83}: 0.22; stable Kr^{83}: 0.544

84. 6.0-m Br^{84} → stable Kr^{84}; 3.3-m Se^{84} → 31.8-m Br^{84} → stable Kr^{84} *(9-12,63)*
6.0-m Br^{84}: 0.019; stable Kr^{84}: 1.00; 31.8-m Br^{84}: 0.92

85. 39-s Se^{85} → 3.0-m Br^{85} → 4.4-h Kr^{85m} (0.775 → stable Rb^{85}; 0.225 → 10.6-y Kr^{85}) *(9-11,63)*
39-s Se^{85}: ~1.1; stable Rb^{85}: 1.30; 10.6-y Kr^{85}: 0.293

86. stable Kr^{86} *(9-11)*
2.02

87. 16-s $Se^{(87)}$ → 54.5-s Br^{87} (~0.03 → stable Kr^{86} + neutron; ~0.97 → 78-m Kr^{87} → 5 x 10^{10}-y Rb^{87}) *(9,15,63)*
16-s $Se^{(87)}$: ~2; stable Kr^{86}: 2.02; 5 x 10^{10}-y Rb^{87}: 2.49

88. 16.3-s Br^{88} (~0.07 → 78-m Kr^{87} + neutron; ~0.93 → 2.8-h Kr^{88} → 17.8-m Rb^{88} → stable Sr^{88}) *(9,13)*
stable Sr^{88}: 3.57

89. 4.4-s Br^{89} (~0.15 → 2.8-h Kr^{88} + neutron; ~0.85 → 3.2-m Kr^{89} → 15.4-m Rb^{89} →)
3.2-m Kr^{89}: 4.59

50.5-d Sr^{89} (4.79) (~0.0002 → 16-s Y^{89m}; ~0.9998 → stable Y^{89}) *(14,16,17)*

90. 1.6-s $Br^{(90)}$ (~0.15 → 3.2-m Kr^{89} + neutron; ~0.85 → 33-s Kr^{90} → 2.7-m Rb^{90} →)
33-s Kr^{90}: 5.0

28 y - Sr^{90} (5.77) → 64.3-h Y^{90} (5.77) → stable Zr^{90} *(9,13,14,18,19)*

91. 10-s Kr^{91} (3.45) → 72-s Rb^{91} (5.43) → 9.7-h Sr^{91} (5.81) (0.60 → 51-m Y^{91m}; 0.40 →)
51-m Y^{91m} (<0.015 → stable Zr^{91} (5.84); → 58-d Y^{91} (~5.4) → stable Zr^{91}) *(13,14,17,18,19)*

92. 3.0-s Kr^{92} (1.87) → 5.3-s Rb^{92} → 2.7-h Sr^{92} (5.3) →
3.6-h Y^{92} → stable Zr^{92} (6.03) *(13,14,20)*

93. 2.0-s Kr^{93} (0.48) → 5.6-s Rb^{93} → 7.9-m Sr^{93} → 10.3-h Y^{93} (6.1) →
1.1 x 10^6-y Zr^{93} (6.45) (~1.00 → 12-y Nb^{93m} → stable Nb^{93}) *(13,14,62)*

94. 1.4-s Kr^{94} (0.10) → 2.9-s Rb^{94} → 1.3-m Sr^{94} →
20-m Y^{94} (5.4) → stable Zr^{94} (6.40) *(13,14,21)*

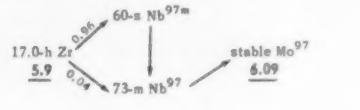
95. short Kr^{95} (0.007) → (short Rb) → 40-s Sr^{95} → 10-m Y^{95} →
65-d Zr (6.2) (0.02 → 90-h Nb^{95m}; 0.98 → 35-d Nb^{95}) → stable Mo^{95} (6.27) *(13,14,22)*

96. stable Zr^{96} (6.33) *(13)*

(Continued on next page)

TABLE 3 (Continued)—Decay Chains and Yields from Thermal-Neutron Fission of U^{235}

97. (short Kr^{97}) → (short Rb) → (short Sr) → (short Y) →
$<6 \times 10^{-5}$



(13,14,16,22)

98. ~60-s Zr^{98} → (short Nb^{98}) → stable Mo^{98} (5.78)
52-m Nb^{98} (0.064) → stable Mo^{98} (5.78)

(13)

99. 33-s Zr^{99} → 2.4-m Nb^{99} → 66.5-h Mo^{99} (6.06) → stable Ru^{99} (0.87); → 6.0-h Tc^{99m} (0.13)
6.0-h Tc^{99m} → 2.1×10^5-y Tc^{99} → stable Ru^{99}

(16,23)

100. 3.0-m Nb^{100} → stable Mo^{100} (6.30)

(13)

101. 1.0-m Nb^{101} → 14.6-m Mo^{101} (~5.6) → 14.0-m Tc^{101} → stable Ru^{101} (5.0)

(13,24)

102. 11.5-m Mo^{102} (~4.3) → 4.1-m Tc^{102} → stable Ru^{102} (4.1)
11.5-m Mo^{102} (~4.3) → 5-s Tc^{102} → stable Ru^{102} (4.1)

(13,24)

103. 1.2-m Tc^{103} → 39.7-d Ru^{103} (3.0) → 57-m Rh^{103m} (0.995); → stable Rh^{103} (0.005)
57-m Rh^{103m} → stable Rh^{103}

(25)

104. (<2.5-m Mo^{104}) → 18-m Tc^{104} → stable Ru^{104} (1.8)

(13)

105. (<2-m Mo^{105}) → 9-m Tc^{105} → 4.45-h Ru^{105} (0.9) →
38-s Rh^{105m} → 36-h Rh^{105} → stable Pd^{105}

(24,26)

106. 1.01-y Ru^{106} (0.38) → 29-s Rh^{106} → stable Pd^{106}

(13,25)

107. (<1-m Tc^{107}) → 4.6-m Ru^{107} → 45-s Rh^{107m} → 22-m Rh^{107} (0.19) →
7×10^6-y Pd^{107} → stable Ag^{107}

(27)

108. (<1-m Tc^{108}) → 4.3-m Ru^{108} → 18-s Rh^{108} → stable Pd^{108}

109. ~25-s Rh^{109} → 13.4-h Pd^{109} (0.030) → 39-s Ag^{109m} → stable Ag^{109}

(28)

111. (short Rh^{111}) → 5.5-h Pd^{111m} (~0.01); → 23-m Pd^{111} (0.99)
5.5-h Pd^{111m} → 74-s Ag^{111m} (0.75); → 23-m Pd^{111} (~0.01)
23-m Pd^{111} → 7.6-d Ag^{111} (0.019) → stable Cd^{111}
74-s Ag^{111m} → 7.6-d Ag^{111} (0.019); → stable Cd^{111} (~0.01)

(28)

112. 21-h Pd^{112} (0.010) → 3.2-h Ag^{112} → stable Cd^{112}

(28,29)

113. 1.4-m Pd^{113} → 1.2-m Ag^{113m} (0.10); → 5.3-h Ag^{113} (0.90)
1.2-m Ag^{113m} → 5.3-h Ag^{113}; → stable Cd^{113}
5.3-h Ag^{113} → stable Cd^{113}

114. 2.4-m Pd^{114} → 5-s Ag^{114} → stable Cd^{114}

115. 45-s Pd^{115} → 20-s Ag^{115m} (0.28); → 21-m Ag^{115} (0.72)
20-s Ag^{115m} → 21-m Ag^{115}; → 43-d Cd^{115m} (0.0007); → 53-h Cd^{115} (0.0097) (0.09)
21-m Ag^{115} (0.0077) → 53-h Cd^{115} (0.0097) (0.91)
43-d Cd^{115m} (0.0007) → 53-h Cd^{115} (0.0097)

4.51-h In^{115m} → 0.95 → 6×10^{14}-y In^{115}; → 0.05 → stable Sn^{115}
6×10^{14}-y In^{115} → stable Sn^{115}

(30)

116. < 30-s Pd^{116} → 2.5-m Ag^{116} → stable Cd^{116}

117. < 30-s Pd^{117} → 1.1-m Ag^{117} → 3.0-h Cd^{117m} (0.011) (< 0.10); → ~50-m Cd^{117} (> 0.60)
3.0-h Cd^{117m} (0.011) → ~50-m Cd^{117}; → stable Sn^{117} (< 0.10)
~50-m Cd^{117} → stable Sn^{117}

2-h In^{117m} → 0.22 → 70-m In^{117}; → 0.001 → 14-d Sn^{117m}; → 0.78 → stable Sn^{117}
70-m In^{117} → stable Sn^{117}
14-d Sn^{117m} → stable Sn^{117}

(31)

119. 2.9-m Cd^{119} → 17.5-m In^{119} → stable Sn^{119}
10-m Cd^{119} → 17.5-m In^{119}

(Continued on next page)

TABLE 3 (Continued)—Decay Chains and Yields from Thermal-Neutron Fission of U^{235}

121. 5-y Sn^{121m} → stable Sb^{121}; 27.5-h Sn^{121} (0.015) → stable Sb^{121} *(32)*

123. (40-m Sn^{123}) → stable Sb^{123}; 136-d Sn^{123} (0.0013) → stable Sb^{123} *(33)*

125. (9.5-m Sn^{125}) → 2.0-y Sb^{125} (0.021); 9.6-d Sn^{125} (0.013) → 2.0-y Sb^{125}; 2.0-y Sb^{125} —0.30→ 58-d Te^{125m} → stable Te^{125}; 2.0-y Sb^{125} —0.70→ stable Te^{125} *(34-36)*

126. 2×10^5-y Sn^{126} → 19-m Sb^{126m}; 19-m Sb^{126m} —0.99→ 12.5-d Sb^{126}; 19-m Sb^{126m} —0.01→ stable Te^{126}; 12.5-d Sb^{126} → stable Te^{126}

127. 1.9-h Sn^{127} → 91-h Sb^{127} (0.13); 91-h Sb^{127} —0.22→ 105-d Te^{127m} (0.035); 91-h Sb^{127} —0.78→ 9.3-h Te^{127}; 105-d Te^{127m} —0.98→ 9.3-h Te^{127}; 105-d Te^{127m} —0.02→ stable I^{127}; 9.3-h Te^{127} → stable I^{127} *(28,37,38)*

128. 57-m Sn^{128} (0.37) —0.97→ 10.3-m Sb^{128}; 57-m Sn^{128} —0.03→ 9.8-h Sb^{128} (0.05); 10.3-m Sb^{128} → stable Te^{128}; 9.8-h Sb^{128} → stable Te^{128} *(27)*

129. 4.6-h Sb^{129} —0.36→ 37-d Te^{129m} (0.35); 4.6-h Sb^{129} —0.64→ 72-m Te^{129}; 37-d Te^{129m} → 72-m Te^{129}; 72-m Te^{129} → 1.7×10^7-y I^{129} (0.8) → stable Xe^{129} *(37,39)*

130. 2.6-m Sn^{130} (2.0) → 7.1-m Sb^{130} → stable Te^{130} *(40)*

131. 3.4-m Sn^{131} → 23-m Sb^{131} (2.6); 23-m Sb^{131} —0.15→ 30-h Te^{131m} (0.44); 23-m Sb^{131} —0.85→ 24-m Te^{131}; 30-h Te^{131m} —0.80→ stable Xe^{131}; 30-h Te^{131m} —0.20→ 24-m Te^{131}; 24-m Te^{131} → stable Xe^{131}

8.05-d I^{131} (~3.1) —0.008→ 12-d Xe^{131m}; 8.05-d I^{131} —0.992→ stable Xe^{131} (2.93); 12-d Xe^{131m} → stable Xe^{131} *(11,28,37, 40,41,44)*

132. 2.2-m Sn^{132} → 2.1-m Sb^{132} → 77-h Te^{132} (~4.7) → 2.30-h I^{132} → stable Xe^{132} (4.38) *(11,37,44)*

133. 4.1-m Sb^{133} (4.0) —0.72→ 52-m Te^{133m} (4.9); 4.1-m Sb^{133} —0.28→ 2-m Te^{133}; 52-m Te^{133m} —0.13→ 2-m Te^{133}; 52-m Te^{133m} —0.87→ 20.8-h I^{133} (~6.9); 2-m Te^{133} → 20.8-h I^{133}; 20.8-h I^{133} —0.024→ 2.3-d Xe^{133m}; 20.8-h I^{133} —0.976→ 5.27-d Xe^{133} (6.62); 2.3-d Xe^{133m} → 5.27-d Xe^{133}; 5.27-d Xe^{133} → stable Cs^{133} (6.59) *(9,37,42,44)*

134. (50-s Sb^{134}) → 43-m Te^{134} (6.9) → 52.5-m I^{134} (7.8) → stable Xe^{134} (8.06) *(11,37,43,44)*

135. (<0.5-m Te^{135}) → 6.7-h I^{135} (6.1); 6.7-h I^{135} —0.30→ 15.3-m Xe^{135m}; 6.7-h I^{135} —0.70→ 9.2-h Xe^{135} (6.3); 15.3-m Xe^{135m} → 9.2-h Xe^{135}; 9.2-h Xe^{135} → 2.6×10^6-y Cs^{135} (6.41) → stable Ba^{135} *(9,37,42, 45-47)*

136. 86-s I^{136} (3.1) → stable Xe^{136} (6.46) *(11,48)*

137. 24.4-s I^{137} —~0.04→ stable Xe^{136} + neutron; 24.4-s I^{137} —~0.96→ 3.9-m Xe^{137} (6.00) → 30-y Cs^{137} (6.15); 30-y Cs^{137} —0.92→ 2.57-m Ba^{137m}; 30-y Cs^{137} —0.08→ stable Ba^{137}; 2.57-m Ba^{137m} → stable Ba^{137} *(9,49)*

138. 6.3-s I^{138} —~0.03→ 3.9-m Xe^{137} + neutron; 6.3-s I^{138} —~0.97→ 17-m Xe^{138} (5.49) → 32.2-m Cs^{138} → stable Ba^{138} (5.74) *(13,50)*

139. 2.0-s I^{139} —~0.04→ 17-m Xe^{138} + neutron; 2.0-s I^{139} —~0.96→ 41-s Xe^{139} (5.4) → 9.5-m Cs^{139} (6.47) → 83-m Ba^{139} (6.55) → stable La^{139} *(14,16,17)*

140. 16-s Xe^{140} (3.8) → 66-s Cs^{140} (6.0) → 12.8-d Ba^{140} (6.35) → 40.2-h La^{140} (6.35) → stable Ce^{140} (6.44) *(14,16,51, 52,65)*

141. 1.7-s Xe^{141} (1.33) → 25-s Cs^{141} (4.6) → 18-m Ba^{141} (6.3) → 3.8-h La^{141} (6.4) → 33-d Ce^{141} (~6.0) → stable Pr^{141} *(14,17,53,54)*

142. ~1.5-s Xe^{142} (0.35) → <8-s Cs^{142} → 10-m Ba^{142} → 81-m La^{142} → stable Ce^{142} (6.01) *(9,13,65,66)*

(Continued on next page)

TABLE 3 (Continued)—Decay Chains and Yields from Thermal-Neutron Fission of U^{235}

143. 1-s Xe^{143} → (short Cs) → 13-s Ba → 18-m La^{143} →
0.051
33-h Ce^{143} → 13.7-d Pr^{143} → stable Nd^{143} *(9,13,14,55,65)*
6.0 6.03

144. short Xe^{144} → (short Cs) → (short Ba) → (short La) →
0.006
280-d Ce^{144} → 17.4-m Pr^{144} → 5×10^{15}-y Nd^{144} *(9,13,14,65)*
~6.0 5.62

145. 3.0-m Ce^{145} → 5.96-h Pr^{145} → stable Nd^{145} *(9,13,65*
3.98

146. 13.9-m Ce^{146} → 24.4-m Pr^{146} → stable Nd^{146} *(9,13,65)*
3.07

147. 1.2-m Ce^{147} → 12.0-m Pr^{147} → 11.1-d Nd^{147} →
~2.7
2.6-y Pm^{147} → 1.3×10^{11}-y Sm^{147} *(9,56,65)*
2.36

148. 40-s Ce^{148} → 1.95-m Pr^{148} → stable Nd^{148} *(9,13,65)*
1.71

149. (2.0-h Nd^{149}) → 53.1-h Pm^{149} → stable Sm^{149} *(9,56,65)*
1.13

150. stable Nd^{150} *(9,13,65)*
0.67

151. (13-m Nd^{151}) → 28.4-h Pm^{151} → 80-y Sm^{151} → stable Eu^{151} *(9,65)*
0.44

152. stable Sm^{152} *(9,65)*
0.281

153. 47-h Sm^{153} → stable Eu^{153} *(28,57,65)*
0.15 0.169

154. stable Sm^{154} *(9,65)*
0.077

155. 24-m Sm^{155} → 4-y Eu^{155} → stable Gd^{155} *(58,59,65)*
0.033 0.033

156. 9-h Sm^{156} → 15.4-d Eu^{156} → stable Gd^{156} *(28,57,59)*
0.013 0.014

157. 15.4-h Eu^{157} → stable Gd^{157} *(60)*
0.0078

158. 60-m Eu^{158} → stable Gd^{158} *(60)*
0.002

159. 18.0-h Gd^{159} → stable Tb^{159} *(57,61)*
0.00107

161. (3.7-m Gd^{161}) → 6.9-d Tb^{161} → stable Dy^{161} *(57,61)*
7.6×10^{-5}

166. 82-h Dy^{166} → 27.3-h Ho^{166} → stable Er^{166}

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CONSTANTS and CONVERSIONS

Basic Constants

Avogadro's number	6.025×10^{23} molecules/gm mole
Barn	10^{-24} cm^2
Boltzmann's constant	1.38047×10^{-16} erg/° C 8.6170×10^{-5} ev/° C
Electron charge	4.8×10^{-10} statcoulomb 1.6×10^{-19} coulomb
Energy equivalent of electron mass	0.51098 Mev
Faraday's constant	9.6514×10^{4} coulomb/gm (physical)
Fermi	10^{-13} cm
Fine-structure constant, α	$\frac{1}{137.030} = 0.0072977$
Mass alpha particle	6.64×10^{-24} gm
Mass electron	9.1066×10^{-28} gm
Mass neutron	1.6751×10^{-24} gm
Mass proton	1.67247×10^{-24} gm
Mass H atom	1.67339×10^{-24} gm
Planck's constant	6.624×10^{-27} erg-sec
Ratio proton to electron mass	$1{,}836.13 \pm 0.01$
Roentgen	1 esu/0.001293 gm of air
Rutherford	0.08206 liter-atm/gm-mole/° K
Rydberg constant	109,737.303 cm^{-1}
Tera $= 10^{12}$	pico $= 10^{-12}$
Giga $= 10^{9}$	nano $= 10^{-9}$
Mega $= 10^{6}$	micro $= 10^{-6}$
Kilo $= 10^{3}$	milli $= 10^{-3}$
Hecto $= 10^{2}$	centi $= 10^{-2}$
Deka $= 10^{1}$	deci $= 10^{-1}$

Conversion Factors

Multiply	*by*	*to get*
Atomic mass units	1.6599×10^{-24}	grams
Atomic mass units	9.3116×10^{8}	electron volts
Atomic weight, chemical scale	1.000272	atomic weight, physical scale
Barns	1×10^{-24}	square centimeters
Btu	1.28×10^{-8}	gm U^{235} fissioned*
Btu	1.53×10^{-8}	gm U^{235} destroyed*†
Btu	2.930×10^{-4}	kilowatt-hours
Btu	3.29×10^{12}	fissions
Btu/hour	0.29293	watts
Curies	3.70×10^{10}	disintegrations/sec
Electron volts	1.7825×10^{-33}	grams
Electron volts	1.6021×10^{-12}	ergs
Fission of 1 gm U^{235}	1	~megawatt-days
Fissions*	8.9058×10^{-18}	kilowatt-hours
Fissions*	3.2041×10^{-4}	ergs
Grams	8.9876×10^{20}	ergs
Half-life	1.443	mean life [= (decay constant)$^{-1}$]
Kilowatt-hour	2.7865×10^{17}	U^{235} fission neutrons*
Kilowatt-hour	2.247×10^{19}	Mev
Kilowatts per kilogram U^{235}	2.43×10^{10}	average thermal-neutron flux in fuel*‡
Megawatt-days per ton U	1.174×10^{-4}	% U atoms fissioned§
Megawatts per ton U	$2.68 \times 10^{10}/E$	average thermal-neutron flux in fuel*‡¶
Mev	3.82×10^{-14}	gram-calories
Mev	1.517×10^{-16}	Btu
Neutrons/kilobarn	1×10^{21}	neutrons/cm^2
Roentgens	1	esu of ions/cm^3 standard air
Roentgens	5.24×10^{7}	Mev absorbed/gm air
REP, roentgens equivalent physical	93	ergs absorbed/gm soft tissue
Rutherford	1×10^{6}	disintegrations/sec
Watts	3.121×10^{10}	fissions/sec

* At 200 Mev/fission.
† Thermal-neutron spectrum ($\alpha = 0.193$).
‡ $\bar{\sigma}$ (fission = 500 barns).
§ At 200 Mev/fission, in U^{235}-U^{238} mixture of low U^{235} content.
¶ E = enrichment in gm U^{235}/gm total. No other fissionable isotope present.

Factors for Converting Decay Constants

By GRACE M. ESTABROOK, *Neutron Physics Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee*

THE FOLLOWING LIST of factors permits calculating, from the half-life ($T_{1/2}$) of any radioisotope, the decay constant (λ) in terms of any time unit. In making these conversions, use the standard equation $\lambda = 0.693147/T_{1/2}$. The conversion factor C was determined from the following equivalents:

1 yr = 365.25 da = 8.766×10^3 hr
= 5.2596×10^5 min
= 3.15576×10^7 sec
1 da = 24 hr = 1.440×10^3 min
= 8.640×10^4 sec
1 hr = 60 min = 3.6×10^3 sec
1 min = 60 sec

λ	$T_{1/2}$	C
yr^{-1}	yr	0.69315
yr^{-1}	da	2.5317×10^3
yr^{-1}	hr	6.0761×10^3
yr^{-1}	min	3.6457×10^5
yr^{-1}	sec	2.1874×10^7
da^{-1}	yr	1.8977×10^{-3}
da^{-1}	da	0.69315
da^{-1}	hr	16.636
da^{-1}	min	9.9813×10^2
da^{-1}	sec	5.9888×10^4
hr^{-1}	yr	7.9072×10^{-5}
hr^{-1}	da	2.8881×10^{-2}
hr^{-1}	hr	0.69315
hr^{-1}	min	41.589
hr^{-1}	sec	2.4953×10^3
min^{-1}	yr	1.3179×10^{-6}
min^{-1}	da	4.8135×10^{-4}
min^{-1}	hr	1.1552×10^{-2}
min^{-1}	min	0.69315
min^{-1}	sec	41.589
sec^{-1}	da	8.0225×10^{-6}
sec^{-1}	hr	1.9254×10^{-4}
sec^{-1}	min	1.1552×10^{-2}
sec^{-1}	sec	0.69315

Dosimetry Conversion Factors

By SUSANNE DEUTSCH ELLIS, *Autometric Corp., New York, N. Y.*
and R. HOBART ELLIS, Jr., *Associate Editor*, NUCLEONICS

THESE FOUR TABLES are designed to permit rapid conversion from one to another of the units for absorbed dose, absorbed dose rate, energy and power. In each of them we have chosen what we consider the best unit for irradiation technology as the first in the list and included other units that are used for the same quantity in either irradiation technology or other disciplines. One exception is that units have been omitted if the appropriate conversion factor appears in another table; thus to convert from rad/sec to rep/sec you use the dose table rather than the one for dose rate.

For economy of space, each dosimetry unit has been multiplied by a power of ten. The numbers in the table are the multipliers to be used to convert the units at the heads of columns to the units in the left-hand column. A hyphen indicates a true multiplication (e.g., gm-rad); hyphens are omitted where the first word is a modifier (e.g., gm calorie, Mev curie). For units involving water, we have assumed the density to be that at room temperature (22.2° C) and 760 mm Hg.

Horizontal lines represent equal quantities; for example 10^{-16} ev/lb = 0.220×10^{-14} ev/gm = 0.152×10^{-5} Btu/lb, etc.

Absorbed Dose

	rad (=100 ergs/gm)	rep (=93 ergs/gm)	10^{14} ev/gm	10^{17} ev/liter (water)	10^{16} ev/lb	10^{-9} watt-hr/gm	10^{-6} watt-hr/lb	10^{-3} watt-hr/bbl (water)	10^{-5} Btu/lb	10^{-8} Btu/gm	10^{-6} gm calorie/gm	10^{-3} gm calorie/lb
rad (=100 ergs/gm)	1	1.075	0.624	0.623	2.831	2.778	1.260	0.330	0.430	0.948	2.389	1.084
rep (=93 ergs/gm)	0.930	1	0.580	0.579	2.633	2.584	1.172	0.307	0.400	0.882	2.222	1.008
10^{14} ev/gm	1.602	1.722	1	0.998	4.536	4.451	2.019	0.528	0.689	1.518	3.827	1.737
10^{17} ev/liter (water)	1.606	1.727	1.002	1	4.547	4.462	2.024	0.530	0.690	1.522	3.837	1.741
10^{16} ev/lb	0.353	0.379	0.220	0.220	1	0.981	0.445	0.117	0.152	0.335	0.844	0.382
10^{-9} watt-hr/gm	0.360	0.387	0.225	0.225	1.020	1	0.454	0.119	0.155	0.341	0.860	0.390
10^{-6} watt-hr/lb	0.794	0.854	0.496	0.495	2.248	2.206	1	0.262	0.341	0.753	1.897	0.861
10^{-3} watt-hr/bbl (water)	3.029	3.256	1.890	1.887	8.576	8.415	3.817	1	1.302	2.871	7.236	3.283
10^{-5} Btu/lb	2.325	2.499	1.451	1.449	6.583	6.459	2.930	0.767	1	2.204	5.554	2.520
10^{-8} Btu/gm	1.055	1.134	0.659	0.657	2.987	2.931	1.329	0.348	0.454	1	2.520	1.144
10^{-6} gm calorie/gm	0.419	0.450	0.261	0.261	1.187	1.164	0.528	0.138	0.180	0.397	1	0.454
10^{-3} gm calorie/lb	0.923	0.992	0.576	0.575	2.614	2.564	1.163	0.305	0.397	0.875	2.205	1

Energy

	rad-gm	10^{-3} rad-lb	rep-gm	10^{-3} rep-lb	10^{2} erg	10^{-5} joule	10^{-9} watt-hr	10^{14} ev	10^{-8} Btu	10^{-6} gm calorie	10^{-11} horsepower-hr	10^{-5} ft-lb
rad-gm	1	2.205	1.075	2.370	1	1	2.778	0.624	0.948	2.388	0.372	0.738
10^{-3} rad-lb	0.454	1	0.488	1.076	0.454	0.454	1.261	0.283	0.430	1.084	0.169	0.335
rep-gm	0.930	2.051	1	2.204	0.930	0.930	2.584	0.580	0.882	2.221	0.346	0.686
10^{-3} rep-lb	0.422	0.931	0.454	1	0.422	0.422	1.172	0.263	0.400	1.008	0.157	0.311
10^{2} erg	1	2.205	1.075	2.370	1	1	2.778	0.624	0.948	2.388	0.372	0.738
10^{-5} joule	1	2.205	1.075	2.370	1	1	2.778	0.624	0.948	2.388	0.372	0.738
10^{-9} watt-hr	0.360	0.794	0.387	0.853	0.360	0.360	1	0.225	0.341	0.860	0.134	0.266
10^{14} ev	1.602	3.532	1.722	3.797	1.602	1.602	4.450	1	1.519	3.826	0.596	1.182
10^{-8} Btu	1.055	2.326	1.134	2.500	1.055	1.055	2.931	0.658	1	2.519	0.392	0.779
10^{-6} gm calorie	0.419	0.924	0.450	0.993	0.419	0.419	1.164	0.261	0.397	1	0.156	0.309
10^{-11} horsepower-hr	2.685	5.920	2.886	6.363	2.685	2.685	7.459	1.675	2.545	6.412	1	1.982
10^{-5} ft-lb	1.356	2.990	1.458	3.214	1.356	1.356	3.767	0.846	1.285	3.238	0.504	1

Absorbed Dose Rate

	rad/hr	10^{-4} rep/sec	10^{10} ev/gm/sec	10^{13} ev/liter/sec (water)	10^{13} ev/lb/sec	10^{-9} watt/gm	10^{-6} watt/lb	watt/bbl (water)	10^{-9} Btu/lb/sec	10^{-12} Btu/gm/sec	10^{-9} gm calorie/gm/sec	10^{-6} gm calorie/lb/sec
rad/hr	1	2.987	1.724	1.730	0.786	2.778	1.260	0.330	1.194	2.633	0.6636	0.301
10^{-4} rep/sec	0.335	1	0.581	0.579	0.263	0.931	0.422	0.111	0.400	0.882	0.222	0.101
10^{10} ev/gm/sec	0.577	1.723	1	0.998	0.453	1.602	0.727	0.190	0.688	1.518	0.382	0.173
10^{13} ev/liter/sec (water)	0.578	1.726	1.002	1	0.454	1.605	0.728	0.190	0.689	1.520	0.383	0.174
10^{13} /lb/sec	1.271	3.797	2.204	2.199	1	3.531	1.601	0.420	1.517	3.346	0.843	0.382
10^{-9} watt/gm	0.360	1.075	0.624	0.623	0.283	1	0.454	0.119	0.430	0.948	0.239	0.108
10^{-6} watt/lb	0.794	2.372	1.377	1.373	0.624	2.206	1	0.262	0.948	2.090	0.527	0.239
watt/bbl (water)	3.027	9.042	5.249	5.237	2.379	8.409	3.814	1	3.614	7.970	2.009	0.911
10^{-9} Btu/lb/sec	0.837	2.500	1.452	1.448	0.658	2.325	1.055	0.276	1	2.204	0.555	0.252
10^{-12} Btu/gm/sec	0.380	1.135	0.659	0.659	0.299	1.056	0.479	0.125	0.454	1	0.252	0.114
10^{-9} gm calorie/gm/sec	1.507	4.501	2.614	2.608	1.185	4.186	1.899	0.497	1.799	3.968	1	0.454
10^{-6} gm calorie/lb/sec	3.322	9.923	5.761	5.748	2.612	9.229	4.186	1.096	3.966	8.747	2.204	1

Power

	gm-rad/hr	10^{-3} rad-lb/hr	10^{-9} watt	10^{10} ev/sec	10^{-6} Mev curie*	10^{-7} Co^{60}ycurie†	10^{-6} Cs^{137}ycurie‡	10^{-12} Btu/sec	10^{-9} gm calorie/sec	10^{-11} horsepower	10^{-7} ft-lb/min	10^{-9} ft-lb/sec
gm-rad/hr	1	2.205	2.778	1.734	0.469	1.887	0.776	2.633	0.664	0.373	1.229	2.049
10^{-3} rad-lb/hr	0.454	1	1.261	0.787	0.213	0.857	0.352	1.195	0.301	0.169	0.558	0.930
10^{-9} watt	0.360	0.794	1	0.624	0.169	0.679	0.279	0.948	0.239	0.134	0.442	0.738
10^{10} ev/sec	0.577	1.271	1.602	1	0.270	1.088	0.448	1.517	0.382	0.215	0.708	1.181
10^{-6} Mev curie*	2.134	4.706	5.929	3.701	1	4.027	1.656	5.617	1.417	0.796	2.623	4.373
10^{-7} Co^{60}ycurie†	0.530	1.169	1.472	0.919	0.248	1	0.411	1.395	0.352	0.198	0.651	1.086
10^{-6} Cs^{137}ycurie‡	1.289	2.842	3.581	2.235	0.604	2.432	1	3.393	0.856	0.481	1.584	2.641
10^{-12} Btu/sec	0.380	0.838	1.056	0.659	0.178	0.717	0.295	1	0.252	0.142	0.467	0.779
10^{-9} gm calorie/sec	1.507	3.323	4.186	2.614	0.707	2.844	1.169	3.966	1	0.562	1.852	3.088
10^{-11} horsepower	2.683	5.916	7.453	4.653	1.258	5.063	2.082	7.062	1.782	1	3.297	5.497
10^{-7} ft-lb/min	0.814	1.795	2.261	1.411	0.382	1.536	0.632	2.142	0.540	0.304	1	1.668
10^{-9} ft-lb/sec	0.488	1.076	1.356	0.847	0.229	0.921	0.379	1.284	0.324	0.182	0.600	1

* Power released by curie of radionuclide in which 1 Mev is released in each disintegration. † Assumes one curie of activity and release of 2.50 Mev (1.17 + 1.33) in each disintegration; no allowance made for β-ray energy. ‡ Assumes one curie of activity in which 92% of distintegrations release 0.661-Mev photons; no allowance made for β-ray energy.

Nuclear Capabilities,

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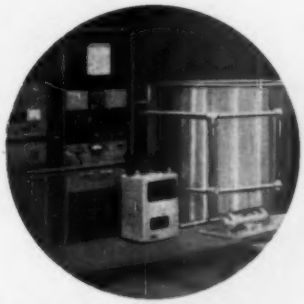

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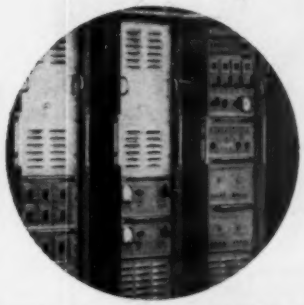

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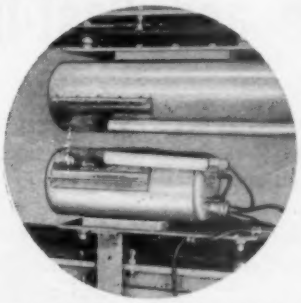

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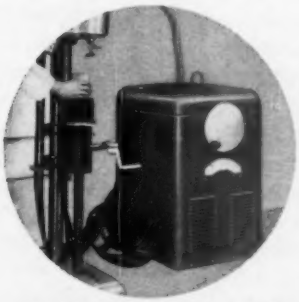

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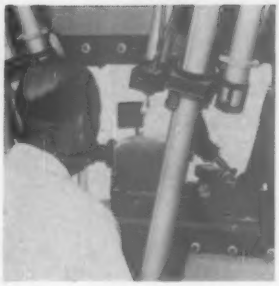

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The 32 MEV Electron Linear Accelerator can deliver up to 350 milliamperes for 0.5 μsec. pulses and 100 milliamperes for 5.0 μsec. pulses with an electron energy range of from 3 to 32 Mev. Nine beam ports are provided for experiments. Extensive instrumentation is available for studies in such fields as radiation effects—both steady-state and transient; neutron cross section determination and neutron energy spectra measurement; photo-nuclear research; solid-state studies; and for the irradiation of pharmaceuticals and foodstuffs.

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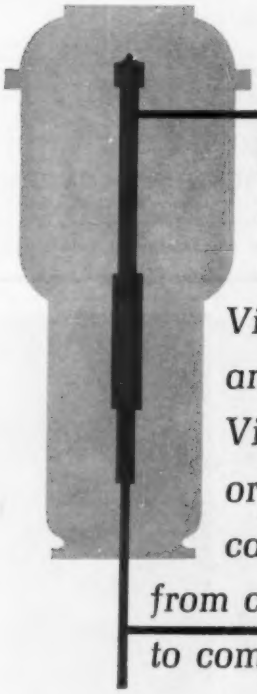

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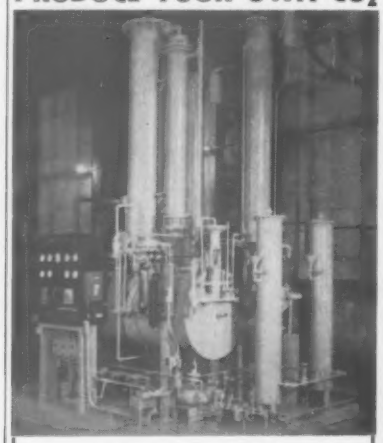

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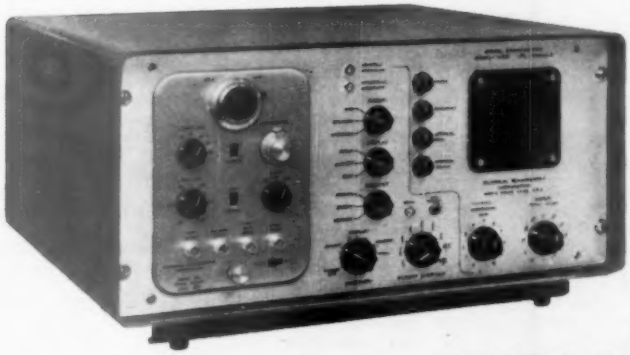

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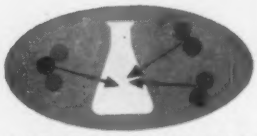

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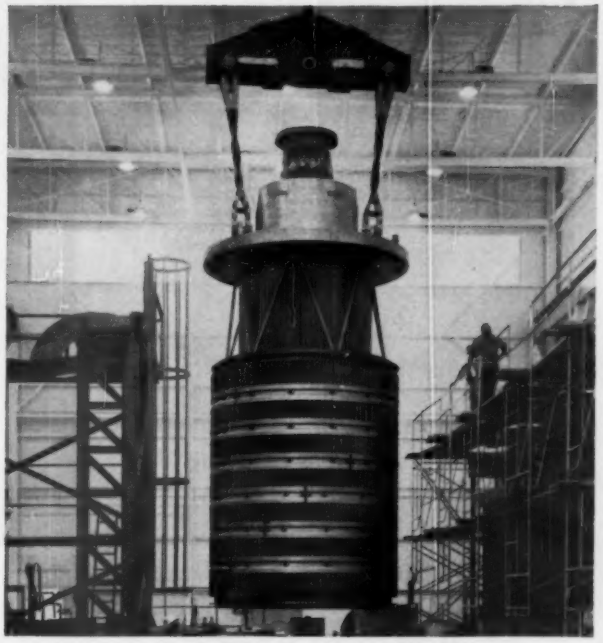

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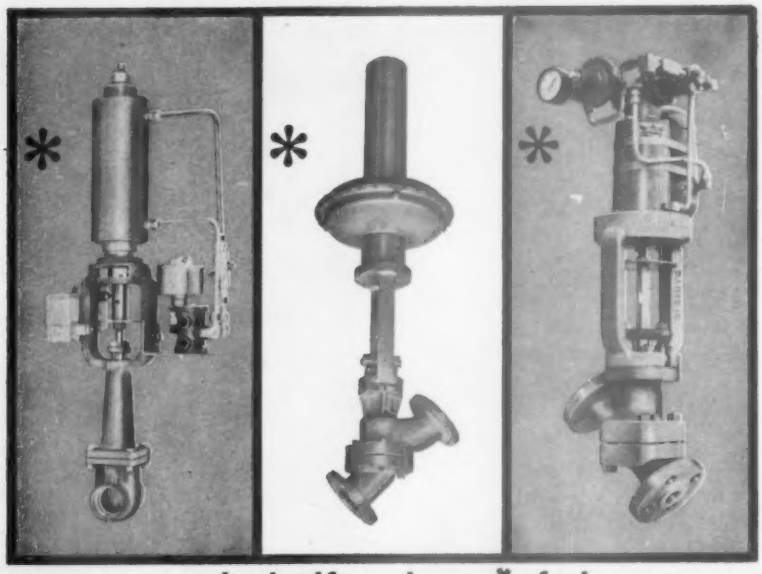

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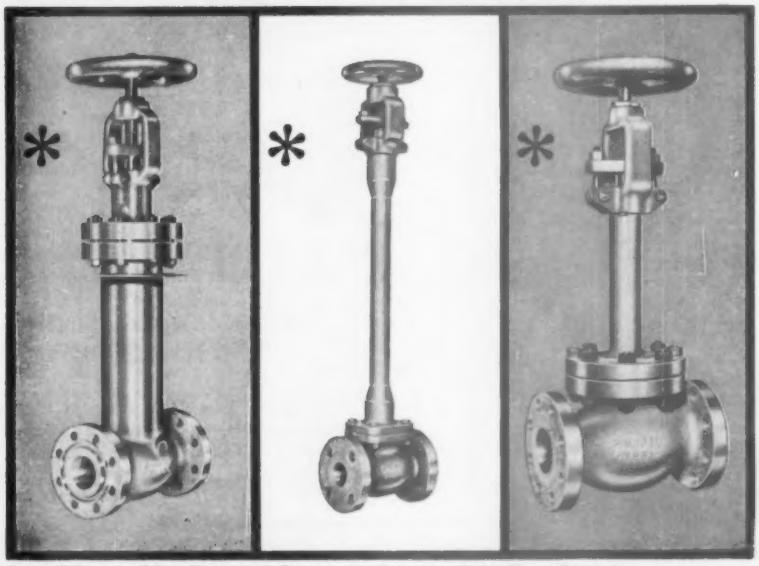

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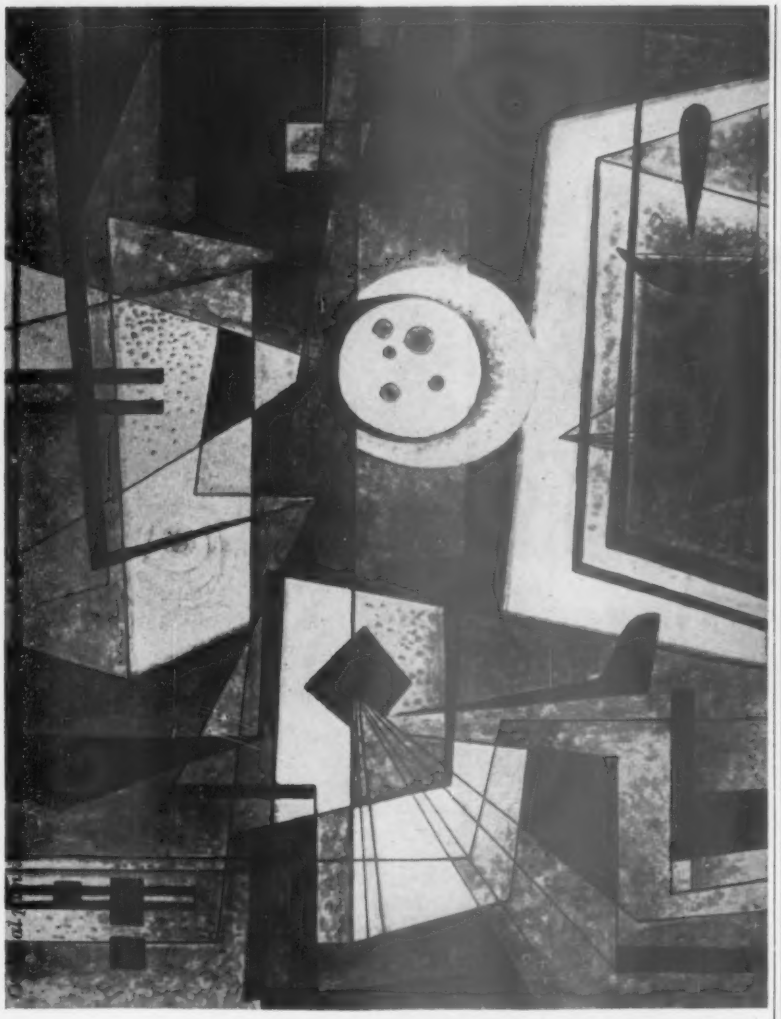

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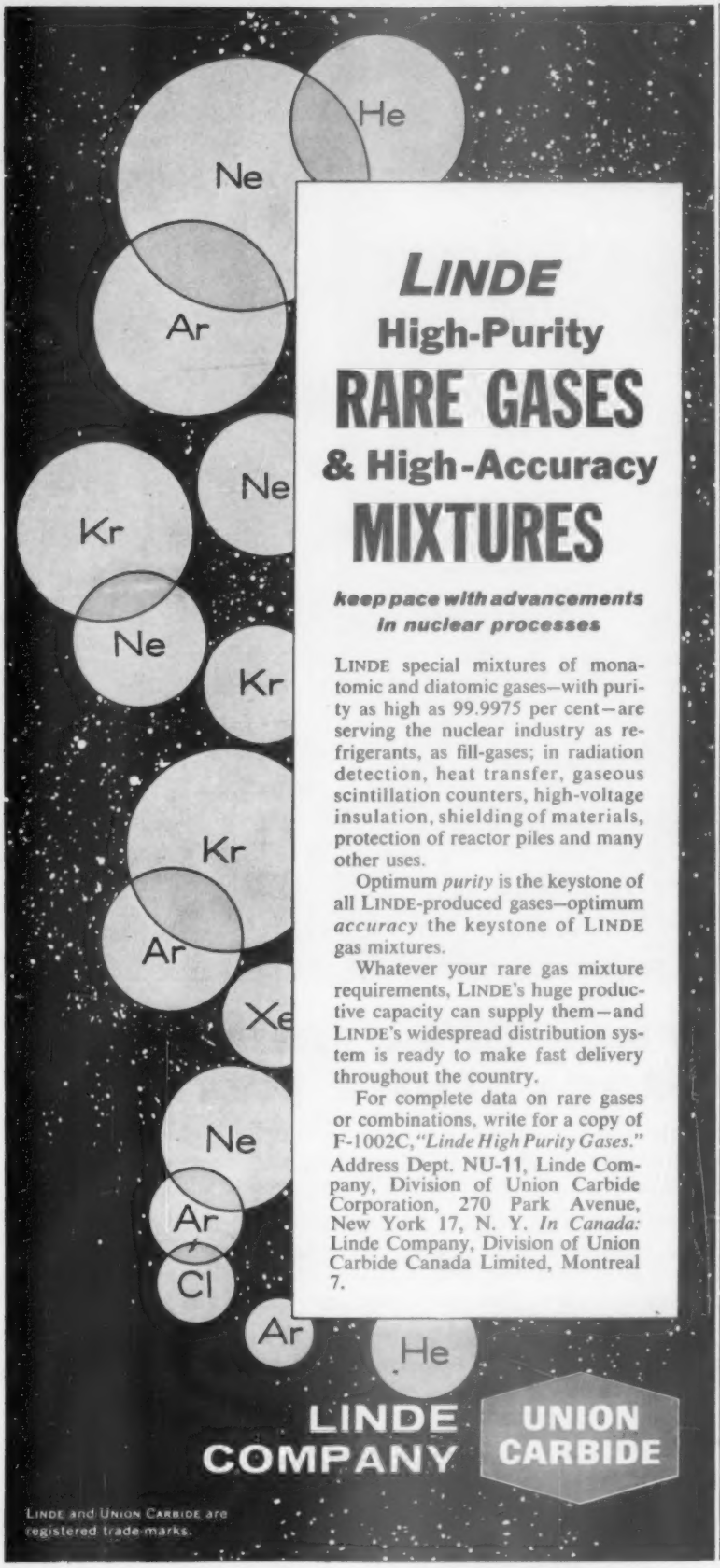

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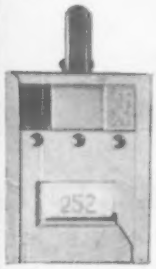

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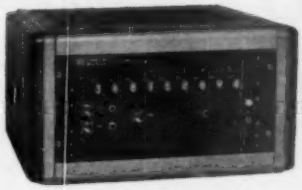
Eldorado INSTRUMENTS AND SYSTEMS

NEW- 100 Mc/s Solid State DECIMAL COUNTER

Model 1050



The fastest electronic counter available to the nuclear researcher . . . thanks to entirely new counting logic developed by Eldorado engineers. The compact, all solid state Model 1050 features a 100 megacycle continuous counting rate with a double pulse resolution of better than 10 nanoseconds.

Specifications

STORAGE	10^9 counts
READOUT	Inline, 9 digits
MAX. COUNTING RATE	100 mc/s
DOUBLE PULSE RESOLUTION	10 nanosec.

Input Pulse Requirements

AMPLITUDE	4 volts.
PULSE WIDTH	7 nanosec.
RISE TIME	3 nanosec.
FALL TIME	3 nanosec.
INPUT IMPEDANCE	50 ohms

ALL SOLID STATE DECIMAL SCALER,

Model 750

Completely solid state, the Model 750 provides a counting rate of one megacycle and resolving time better than 1.0 microsecond, with full electronic scaling. Includes a stable non-overloading amplifier with calibrated gain and precision integral discriminator.

Specifications

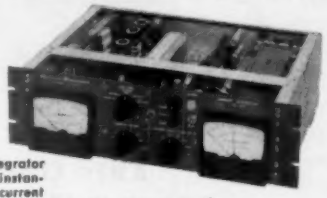
Scaler Resolutions	Better than 1.0 microsecond
Amplifier (optional)	Minimum input signal 10 millivolts Maximum input signal 10 volts
Input Polarity	Positive
Pulse Height Discriminator Type	Integral

ALSO AVAILABLE: Model 700 Scaler, a low-priced 7 decade instrument including amplifier for general counting applications; Model 724 Scaler, 8 decades, no amplifier; Three Channel Scaler, System 1000. Write for data sheets, "Scalers."

STANDARD INSTRUMENTS

Current Integrator

Model 110



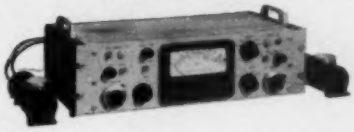
The Model 110 Current Integrator simultaneously measures the instantaneous value of an input current (or voltage) and integrates this input with respect to time. Model 110 features 12 current ranges, negligible drift and preset charge level.

Specifications

Current Range	3×10^{-9} to 10^{-3} amperes dc
Integrating Capacity	Up to 50 coulombs infinite using rising recycle feature
Accuracy	±0.2% (current) ±0.8% (charge)
Signal Source Impedance	50 megohms maximum (decreases on higher ranges)

DIFFERENTIAL PHOTOMETER

Model 210



Eldorado's Model 210 Photometer measures the intensity difference between two light sources, or can measure and record the intensities of the two light sources independently. Features exceptional accuracy, stability and sensitivity for measuring fluorescence, phosphorescence luminescence and other phenomena.

Specifications

Accuracy: 1% each channel, 2% differential (at recorder output)

Stability: ±0.1% per channel per day

Range (full scale values): 1, 10, 100 millimicroamperes; 1, 10 microamperes

Maximum Sensitivity: Full scale deflection obtained with 1% change or either input from equal input condition.

Other standard instruments: Model 201 Universal Photometer, general purpose instrument for light measurements; Model 300 time-to-pulse height converter for measuring time intervals ranging from a fraction of a millimicrosecond to 3 microseconds.

SYSTEMS

20 CHANNEL TIME ANALYZER, System 1500 With Optional Pulse Height Analysis

Two interchangeable control units allows use of the System 1500 as a 20-channel time analyzer or a 20-channel pulse height analyzer. As a time analyzer, the System 1500 can be used with any pulsed neutron source for making decay studies. As a pulse height analyzer, the 1500 is an inexpensive general purpose instrument for obtaining spectrums of up to 100 points.

General Specifications

No. Channels	20
Storage Capacity, per channel	10^5
Double Pulse Resolution, each channel	10 microseconds.
Maximum Counting Rate	250 counts/second.

Time Analyzer

Input Signal Requirements	Detector	Trigger
Amplitude	5 volts	35 volts
Polarity	Positive	Positive
Pulse Width	0.5 microseconds	4 microseconds
Channel Width	10^{-6}, 10^{-4}, 10^{-3}, 10^{-2}, 10^{-1} second	

Optional Pulse Height Analyzer

Channel Width	1 volt
Double Pulse Resolution	2 microseconds
Channel Width Stability	Typically ±1.5% per day
Window Width	20 volts
Window Position Range	5 to 105 volts, continuously variable
Input Pulse Requirements	
Polarity	Positive
Rise Time	20-200 millimicroseconds
Fall Time	50-300 millimicroseconds
Minimum Pulse Width	0.75 microseconds at 70% amplitude
Power Requirements	115 or 230 volts, 1800 watts. Specify 50 or 60 cycle operation on order.

Other Eldorado Systems: 32 Channel Time Analyzer, System 0900, counts and stores information from 32 channels for the statistical analysis of distribution of nuclear events in time. Multi-Channel Scaler, System 0600, consists of 27 digital scalers in single compact cabinet.

PULSE HEIGHT ANALYZERS

MULTI-CHANNEL PULSE HEIGHT ANALYZER, Model 4100

The Eldorado 4100, fastest multi-channel pulse height analyzer commercially produced for the nuclear physicist, features a double pulse resolution of 1.0 microsecond.

Specifications

Number of Channels	20
Channel Width	1 volt, nominal
Window Width	20 volts, nominal
Channel Count Capacity	1,000,000
Double Pulse Resolution	1.0 microsecond or window amplifier input

MULTI-CHANNEL PULSE HEIGHT ANALYZER, Model 400

Eldorado's Model 400 Multi-Channel Pulse Height Analyzer can be furnished with 10 to 30 channels—a simple to operate and reliable instrument especially for laboratories with limited funds. Double pulse resolution—20 microseconds at window amplifier input.

For complete details on any Eldorado instrument or system, contact your Eldorado engineering representative or write direct for Short Form Catalog, D-100.

Eldorado Electronics

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The FLEXO-RABBIT Model 400 is an inexpensive, portable pneumatic transfer system consisting of flexible tubing and an associated control unit. It has been used with great success to transfer samples to extremely awkward irradiation spaces in nuclear reactors and particle accelerators—and then deliver them to radiochemistry laboratories or directly to counting arrangements.

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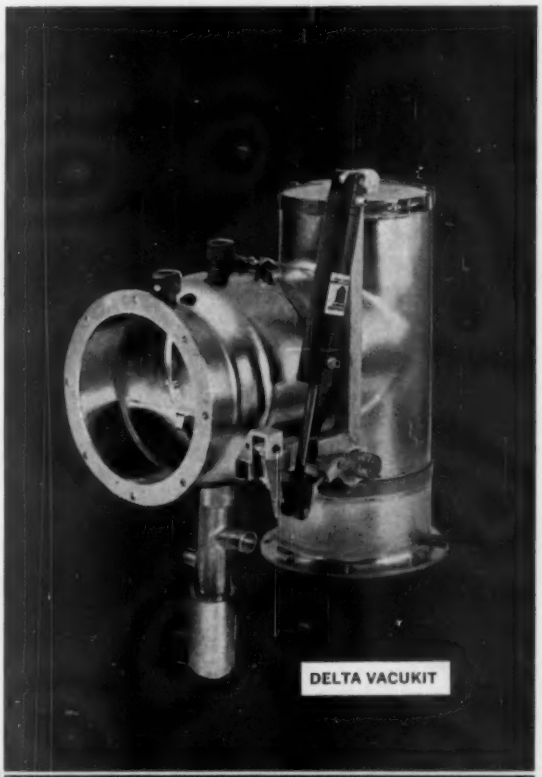

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Contaminant-free atmospheres enable fabrication of toxic and reactive material. Quality stainless construction means top quality work, minimum maintenance. Sloped maximum-visibility window gives visual control of operations equivalent to that in open air. Dust-free dry or inert atmospheres are ideal for assembly, welding, sintering, brazing, machining, inspecting reactive or toxic materials. **B-10 Series:** either in single or multi-units. **B-20 Series:** easy-operating; available for vacuums exceeding 1×10^{-6} mm Hg.

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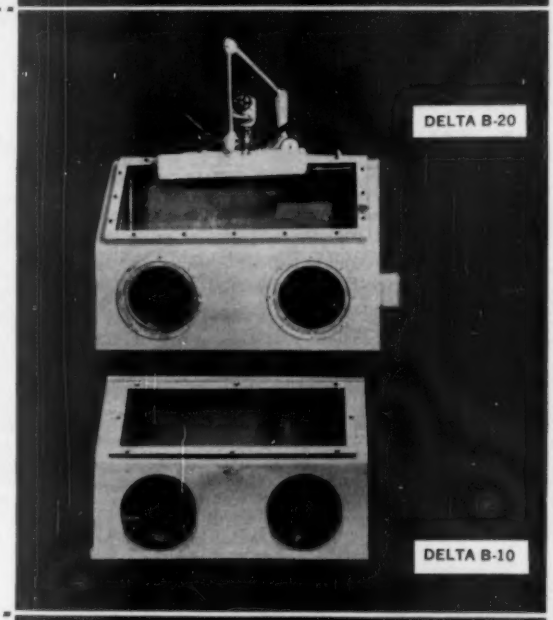

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Enriched BF_3 Neutron Proportional Counters

1100 Aluminum or 304 Stainless Steel—Heli-arc Welded—High Temperature Processed. High Alumina Insulators—Single Ended—Water Immersible. Excellent Resolutions—1% Plateau Slopes—Can Be Used in Parallel Operation.

Type	Dimensions with HN Connector OD. x L.	Active Anode Length & Diam.	*Operating Voltage Range For Pres. & Anode D. Listed cm. of Hg.	volts	Price Aluminum .032" Wall	Price Stainless Steel .020" Wall
RSN-40	1" x 8"	4" x .002"	40	1100–2300	$105.	$125.
RSN-41	1" x 10"	6" x .002"	40	1100–2300	110.	135.
RSN-7	1" x 12"	8¼" x .002"	40	1100–2300	115.	140.
RSN-50	1" x 12"	8¼" x .001"	55	1200–2200	**200.	—
RSN-42	1" x 16"	12" x .002"	40	1100–2300	120.	145.
RSN-64	1" x 30"	26¼" x .001"	55	1200–2200	**290.	—
RSN-51	1" x 50"	46" x .002"	40	1100–2300	160.	—
					.055" Wall	.035" Wall
RSN-28	2" x 12"	8¼" x .002"	40	1300–2500	$135.	$160.
RSN-44	2" x 16"	12" x .002"	40	1300–2500	145.	170.
RSN-45	2" x 24"	20" x .002"	40	1300–2500	175.	200.
RSN-53	2" x 50"	46" x .002"	40	1300–2500	250.	—
RSN-56	2" x 60"	56" x .002"	40	1300–2500	290.	—

Time-of-Flight BF_3 Counters—High Pressure—High Sensitivity. Extra Long Insulators for High Voltage Operation (No connector)—1% Plateaus—500 Volts Long—Fast Collection Times.

					.032" Wall
RSN-57	1" x 20"	18" x .006"	120	5000–7000	$175.
RSN-25	1" x 50"	46" x .006"	120	5000–7000	200.
					.055" Wall
RSN-72	2" x 24"	20" x .004"	70	2000–4000	$195.
RSN-74	2" x 40"	36" x .004"	70	2000–4000	249.

End Window—BF_3 Counters—For Neutron Diffraction Studies. Small diameter anode support at Window. Nickel Window Aperatures: .005" thick, .900" and 1.85" Diameters.

RSN-29	1" x 12"	8" x .002	120	2600–3500	$200.
RSN-63	2" x 16"	12" x .002	70	1200–2500	300.

** Operating voltages dependent on electronics and cable attenuation. ** Price includes aluminum-ceramic HN connectors for use in high flux applications.*

GENERAL NOTES: 1. Sensitivity to neutrons is approximately proportional to Active Volume, Fill Pressure and par cent B-10 enrichment. BF_3, enriched 96% B-10, used in all counters; sensitivity Type RSN-50 equals approximately 4.5 counts/neutron/cm³/sec. All counters available with depleted BF_3, containing 11% B-10; One inch diameter counters can be filled to 160 cm of Hg. pressure, two inch diameter counters to 70 cm of Hg. pressure.
2. Standard tubes are supplied for operation in temperature ambients up to 80° C. On special request most models can be specially processed for operating temperatures up to 150° C.
3. Other proportional counter types, filling gases and sizes available, such as: B-10 lined; Probes; Miniature; Annular and Multi-anode.

Fast Neutron Proton Recoil Proportional Counters

HURST TYPE Polyethylene Lined—Ethylene, Cyclopropane and Methane-Argon Filled. Designed to Measure Neutron Tissue Dosages from 0.1 to 15 mev. Made to Exacting Oak Ridge National Laboratory Specifications.

In Brass with Glass Insulators, MHV Connectors, to Exact ORNL Dimensions:

Reuter-Stokes Designation	ORNL Model & Purpose	Nominal Dimensions O.D. x L.	Approx Neutron Sensitivity Counts/nv	*Fill Gas & Pressure cm.	Approx. Op. Volt.	Price
RSN-3 One Chamber	Q 1329 "Phantom"	1 5/16" x 8 9/16"	1.8×10^{-3}	76 C_2H_4	1200	$ 325.
RSN-48 One Chamber	Q 1696 For "RADSAN"	2 7/16" x 7 9/16"	3.5×10^{-3}	50 C_3H_8	1200	1150.
**PU-239 Alpha Calibration Source						
RSN-61 Two Chamber	Q 963 "For Rudolph"	1 7/8" x 4¼"	2.0×10^{-4}	13.5 x CH_4-A	1400	290.
RSN-2 3 Chamber	Q 1381 Gen. Purpose	2 1/16" x 9¾"	1.2×10^{-1}	76 C_2H_4	1500	325.

Reuter-Stokes Equivalents in Welded Aluminum—Ceramic Envelopes.—HN Connector.

RSN-30A One Chamber	"Phantom"	1" x 8"	1.5×10^{-3}	76 C_2H_4	1200	250.
RSN-39A 3 Chamber	General Purpose	2" x 8 15/16"	1.2×10^{-1}	76 C_2H_4	1500	325.
RSN-62-A. 4 Chamber	General Purpose	2" x 10 13/16"	1.6×10^{-1}	76 C_2H_4	1500	350.

** Complete facilities maintained for repair and refill of all counters with any desired gas mixture and pressure. ** Plutonium 239 calibration source internal and coated with silicon monoxide film to prevent contamination of counter.*

Other Important Products of Reuter-Stokes

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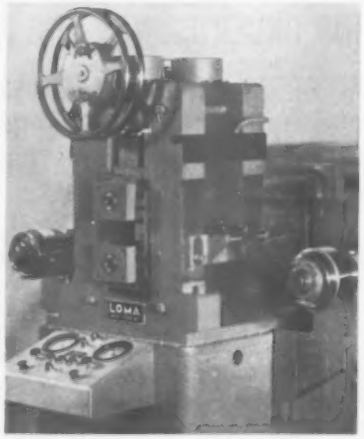

This rugged and versatile reversing 2-high / 4-high combination mill brings high-precision rolling of thin-gauge ferrous and non-ferrous strip within reach of the smaller re-rolling mill, metals pilot plant and research laboratory. Occupying only 35 sq. ft. of floor space and involving a cost of less than $20,000, the machine handles up to 6 in. wide strip at rolling speeds up to 250 ft. per min. with accurate front and back tension control.

The new 8 in. mill is furnished with two sizes of 4-high work rolls, made of either alloy tool steel or solid tungsten carbide: the 1½ in. size is used for normal cold reduction down to 0.002 in. thickness, and the ¾ in. size allows special ultra-thin finishing to gauges of less than 0.001 in. In the 4-high setup, the machine handles up to ⅛ in. gauge; the 2-high arrangement is used for the hot or cold breakdown of heavier materials up to 1 in. thick, but is also available for skin pass rolling of thin strip.

The production of close-tolerance stock is assured by an exceptionally rugged mill design, employing steel housings of 160 sq. in. post area, super-precision needle roller journal bearings of 175,000 lb. separating force capacity, a heavy-duty mill drive with herringbone gearing and universal joint spindles, and twin-handwheel worm drive screwdowns. The machine is powered by a four-speed reversing drive offering constant horsepower from 40 to 250 ft. per min. rolling speed.

The outstanding feature of the new machine is its reversing strip coiling attachment allowing the two-way rolling of strip under tension control with no more effort than a mere flick of a selector switch. Mounted on brackets at either side of the mill, the two coiling shafts carry 8 in. diameter reels designed for a coil buildup of 6 in. Both shafts are driven from the pinion stand and are provided with dual air-operated slip clutches and brakes of ultra-sensitive, low-inertia design. Selective operation through solenoid valves and pressure regulators precisely controls the front and back tensions desired for any given mill pass.

LOMA
MACHINE MFG. CO., INC.
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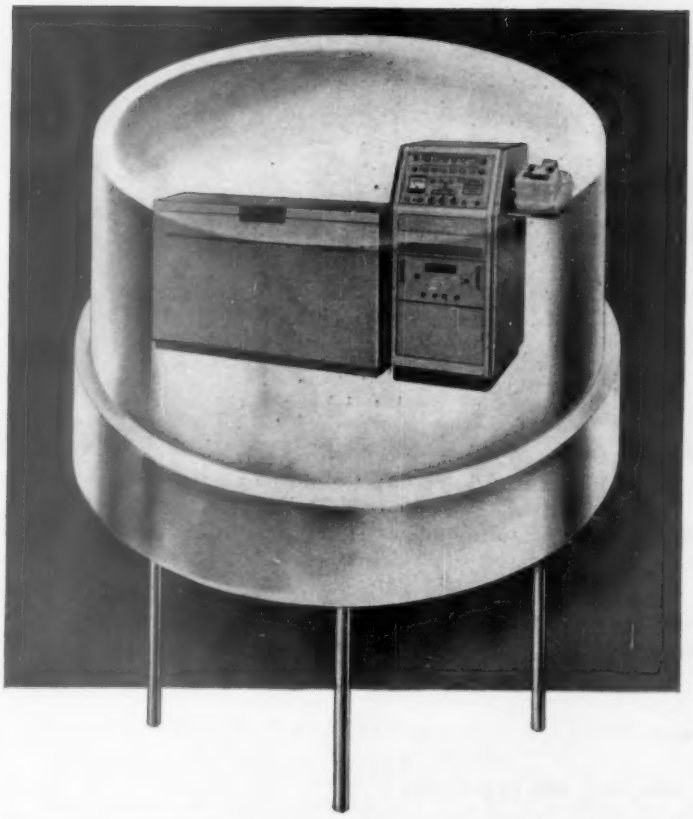

Since its introduction six years ago, the Tri-Carb® Liquid Scintillation Counting Method has become the leading method for the radioassay of samples containing Tritium, Carbon-14, Sulfur-35 and other alpha- and beta-emitters. More samples of Tritium and Carbon-14 are now being counted in the Tri-Carb Spectrometer than in any other instrument. Look around—with hundreds of installations throughout the world, there is a Tri-Carb Spectrometer near you.

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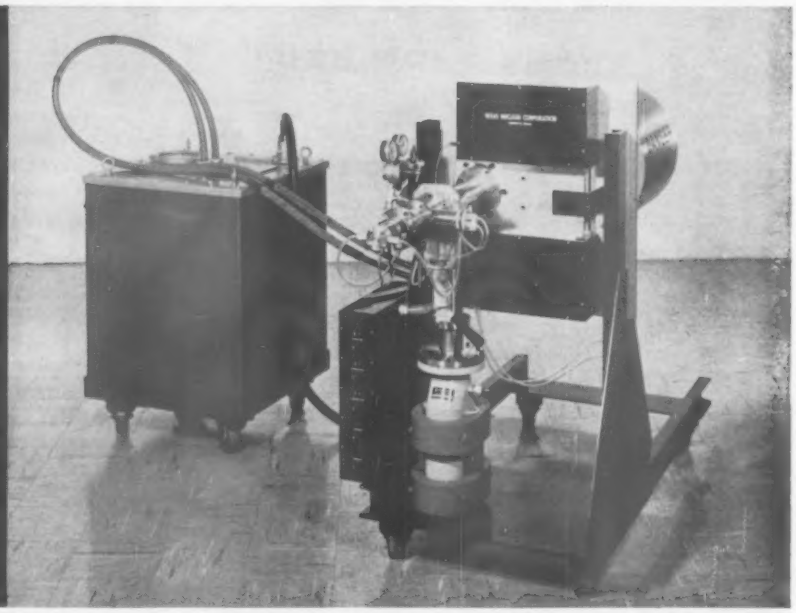

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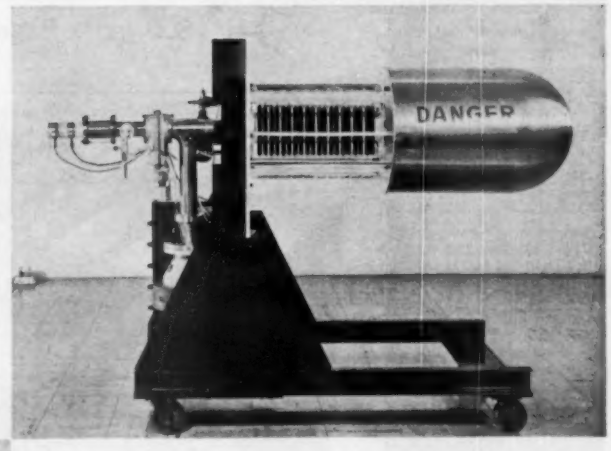

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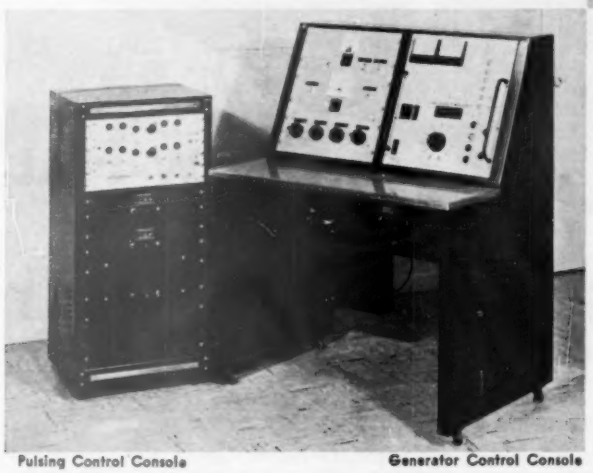

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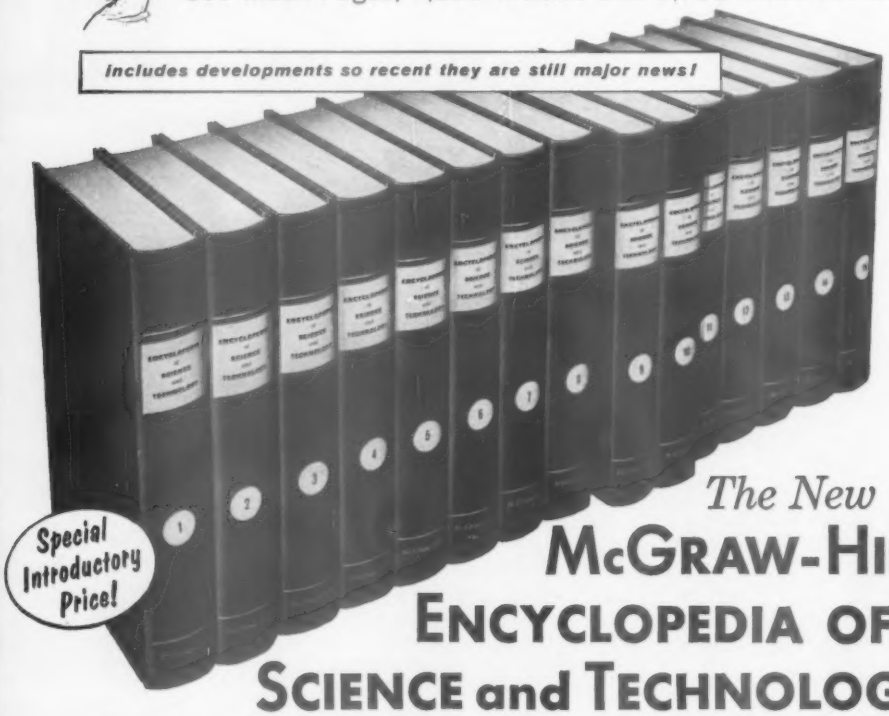

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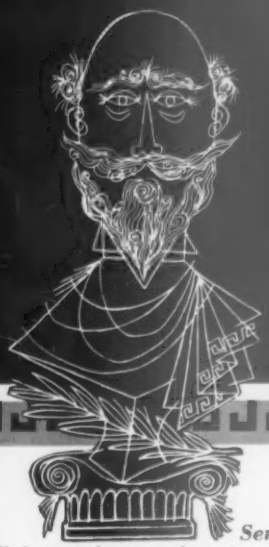

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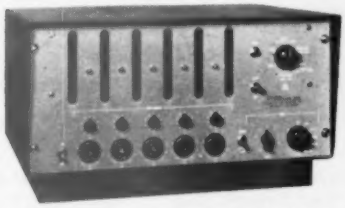

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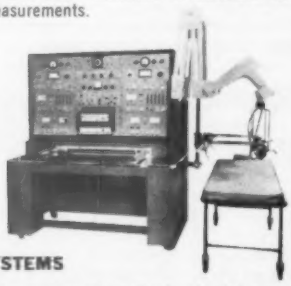

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411/411C†	10 x 10^{-4}, 3 x 10^{-4}, 10 x 10^{-5}, etc. to 10 x 10^{-12} amp f.s.	±2% f.s. on 10 x 10^{-4} to 10 x 10^{-8} ranges; within 4% on others.	Below 2% per week from cold start, input 10 v or more.	10 v f.s. up to 5 ma. Output noise below 1% of f.s.
412/413††	Single 10^{-7} to 10^{-13} amp, source voltage over 1 v.	Within 0.2 decade, with source voltage over 1 v.	Below 0.05 decade in 24 hours with source voltage over 1 v.	Zero at 10^{-13} amp to −6v at 10^{-7} amp; up to 5 ma.
414/414C†	17 ranges from 10^{-2} to 10^{-10} amp f.s.	Within 3% f.s. 10 ma to 10 mμa; 4% f.s. 3 mμa to 0.1 mμa.	2% per day with source voltage over 1 v.	5 v f.s. up to 1 ma. Output noise below 1% of f.s.
415	10^{-12}, 3 x 10^{-12}, 10^{-11} 3 x 10^{-11}, to 10^{-3} amp f.s.	±2% f.s. 10^{-3} thru 10^{-8} ranges; ±3% f.s. 3 x 10^{-9} thru 10^{-12}.	After warmup, below 2% f.s. per 24 hours all ranges.	1 v f.s. up to 5 ma. Noise below 20 mv rms.
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†Contact meter models have same specifications as standard units except for addition of a contact meter relay.
††413 same as 412 except: RANGE, 10^{-5} to 10^{-11} ampere.

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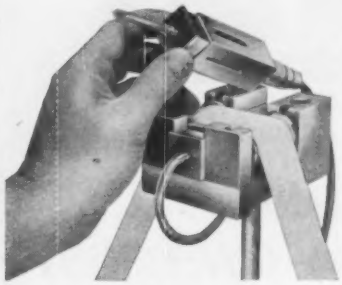
TRITIUM-CARBON RADIO CHROMATOGRAPHS



The chromatogram strip is scanned from both sides with two windowless flow counters (see insert). The chromatogram strip constitutes a part of the cathode of the detector, insuring highest sensitivity for tritium beta rays (Patented). Total background 20 counts/min. The scanning head can be decontaminated through immersion in an ultra-sound bath or in boiling detergent. Gas consumption: 1 No. 1A cylinder lasts for 4000 hours.

Model ACSHIC. For continuous processing of ½, 1 and 1½ inch wide chromatogram strips, spliced end to end either during scanning, or stored on reels. With Texas rectilinear recorder, with fingertip control speed selector. Automatic coding with separate marker pen. Rf-values can be read directly from the chart. Complete with countingrate meter with eight linear, one logarithmic range, five time constants and aural monitor.....$2,180.00

Model ACSDIC. Same, with dual channel recorder and two countingrate meters. Produces separate plots for tritium and Carbon-14, or for any two tracers on the same chromatogram strip.....$3,450.00

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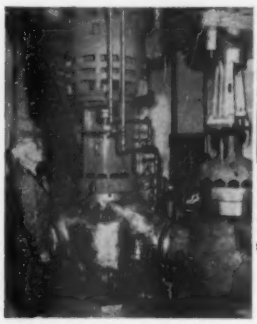
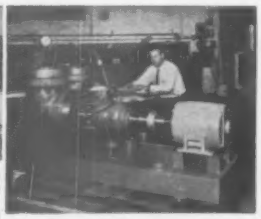


This Peerless Pump is installed at the Vallecitos Atomic Plant on the first forced circulation dual cycle boiling water reactor ever built.

Peerless has had a separate research and development group working on pumps for high temperatures and pressures since 1950. Out of this group have come pumps for atomic powered submarines, reactors, steam generators.



This limited leakage pump for an Atomic Laboratory is shown above undergoing final high temperature seal tests. Parts in contact with pumpage are all of 304 stainless steel.

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Recognizing the need for special pump equipment for nuclear and related equipment, Peerless long ago set up a special development and production group. Drawing on thirty-five years of experience, this group has engineered a number of pumping elements for the extremely high pressures, low stuffing box leakage and high temperatures involved in reactor systems.

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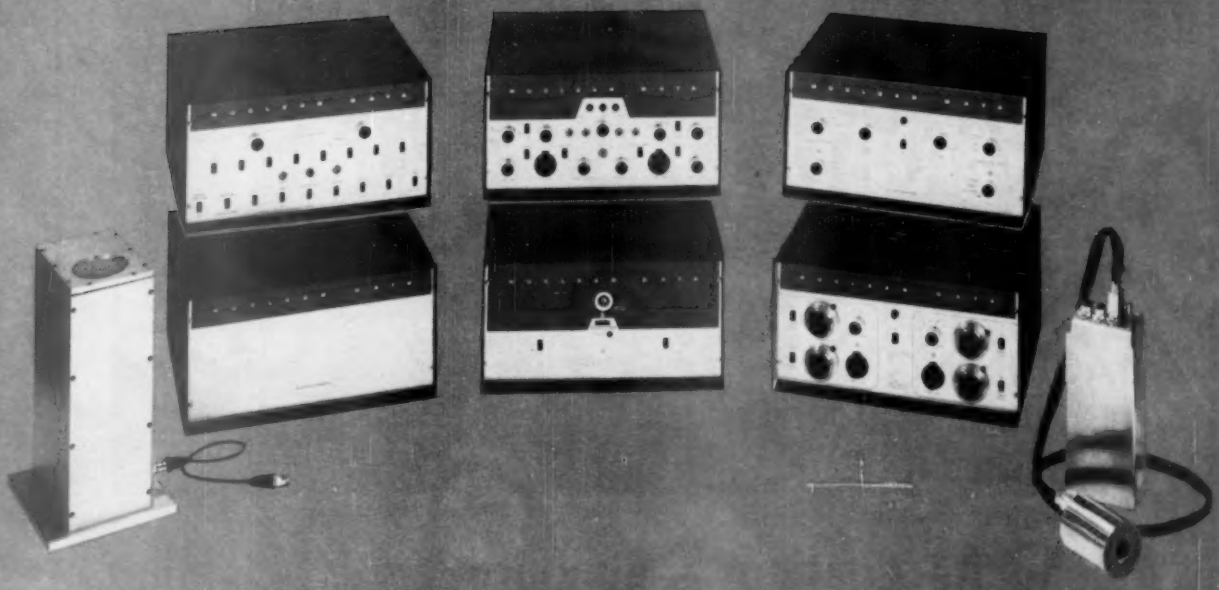

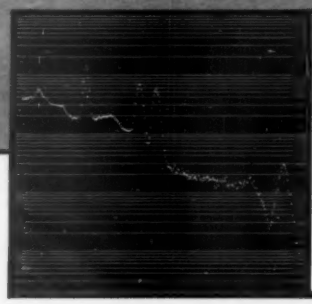

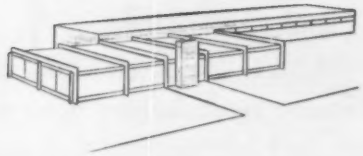

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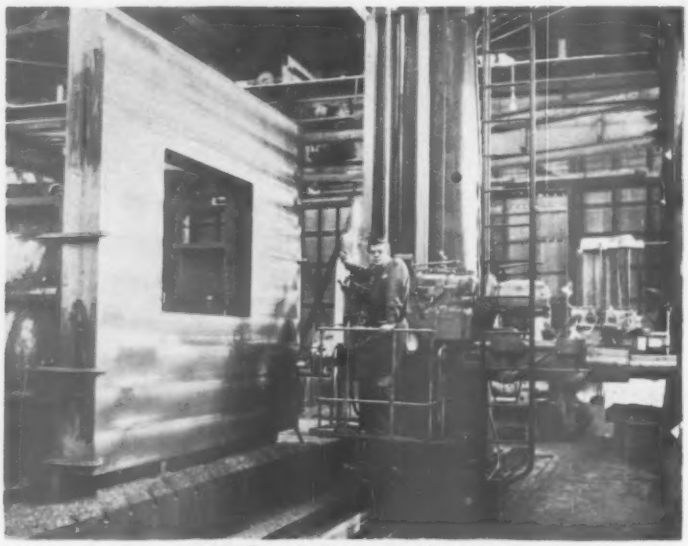

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for nuclear processes

- The unit illustrated is used in the salvage severance of obsolete pipelines. In actual use the cutting head is suspended in the "hot" area and is operated by remote control. It is controllable in a manipulator "wrist action" for positioning between manifolded pipe headers. In less than 10 seconds it will cut 4" O.D. x .226 wall Inconel pipe at room temperature. Your inquiry on units of this type or for the development of other special equipment involving high pressure hydraulics would be welcome.

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SPECIFICATION

Signal polarity
Positive or Negative.

Sensitivity
Potential: 10mV—1V F.S.D. } 20mV—2V F.S.D. } continuously variable.
Current, direct display: 10^{-14} A — 2×10^{-6}A F.S.D.
Current, rate-of-drift method: down to 2.5×10^{-16} A.

Input Insulation-Resistance and Capacity
Greater than 10^{15} Ω; 12.5 μμF

Input Resistor
Any value between 10^{6} Ω and 10^{12} Ω

Accuracy
Range setting by helical potentiometer to ± 1% of setting.
Display by first-grade meter to ± 1% of indication above half-scale
± 1% of full-scale below half-scale

Provision is made for the use of an external reference potential.

Zero Stability
± 100μV per 24 hours at constant temperature
± 100μV per degree Fahrenheit
± < 100μV for supply variation from +5% to —10%
Provision is made for calibrating the Electrometer against an external reference potential.

Output
A 100 mV/1mA signal to actuate a recorder or a remote indicator.

Polarizing Supply
Potential: O-200V, +ive or —ive, continuously variable. Source Impedance: 1 M Ω
The supply is monitored by the front-panel meter.

Power Supplies required
110/120 or 200/250 volts, 50/60 c.p.s., 80VA

Conversion Frequency
Approximately 1,200 c.p.s.

Response Speed
The time-constant of the signal-input is adjustable.

Guard Terminal
The signal cable and input connector are double-screened; the inner screen may be switched to feedback which further increases the input time-constant and reduces the leakage to earth.

Remote Operation
The Head Amplifier may be operated at a distance of up to 200 ft. from the Indicator Unit.

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Preset time and present count. Six decade automatic scaler with precision discriminator and stable H.V. to 2,000 volts. Large meter monitors H.V. and discriminator voltages. 5 us resolution input sensitivity .1 volt neg. or 5 volts pos. Push buttons also provide start, stop, reset, test 1 cps, test 60 cps. The perfect instrument for most scintillation and GM counting.

N600 RATEMETER

Plug-in assembly in a compact versatile package. 10 ranges 3 cps to 100,000 cps full scale with mean probable error control from 1% to 10%. P.H.A. section provided with variable gate in voltage 0–100 and 0–100% of threshold with manual and automatic scan. Fast recovery from overload. Linear amplifier from 25–1,000 times with stable H.V. up to 2,000. AMP input sensitivity .5 mv to 2 negative, 5 volts to 100 positive. Recorder output.

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Operates on standard batteries. Ionization chamber of high sensitivity; 0–3 mrads, 0–30 mrads, 0–300 mrads plus integrating range of 0–30 mrads with a time constant of 15 hours. Measure, Beta 3 MEV to 500 KEV and Gamma 3 MEV to 10 KEV with 10% accuracy. Chamber especially designed to approximate physiological dose-rate.

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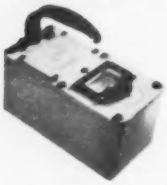

N578 SLOW NEUTRON MONITOR

Measures dose rate from slow neutron 0–15 mrem/hr to 0–150 mr with inbuilt calibration source. Scales calibrated and direct reading. 80–1 discrimination against gamma dose rate. Energy range to 30 eV. One second time constant.

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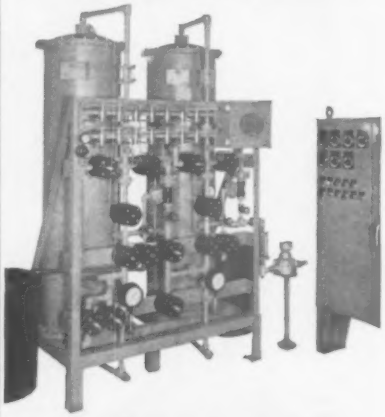

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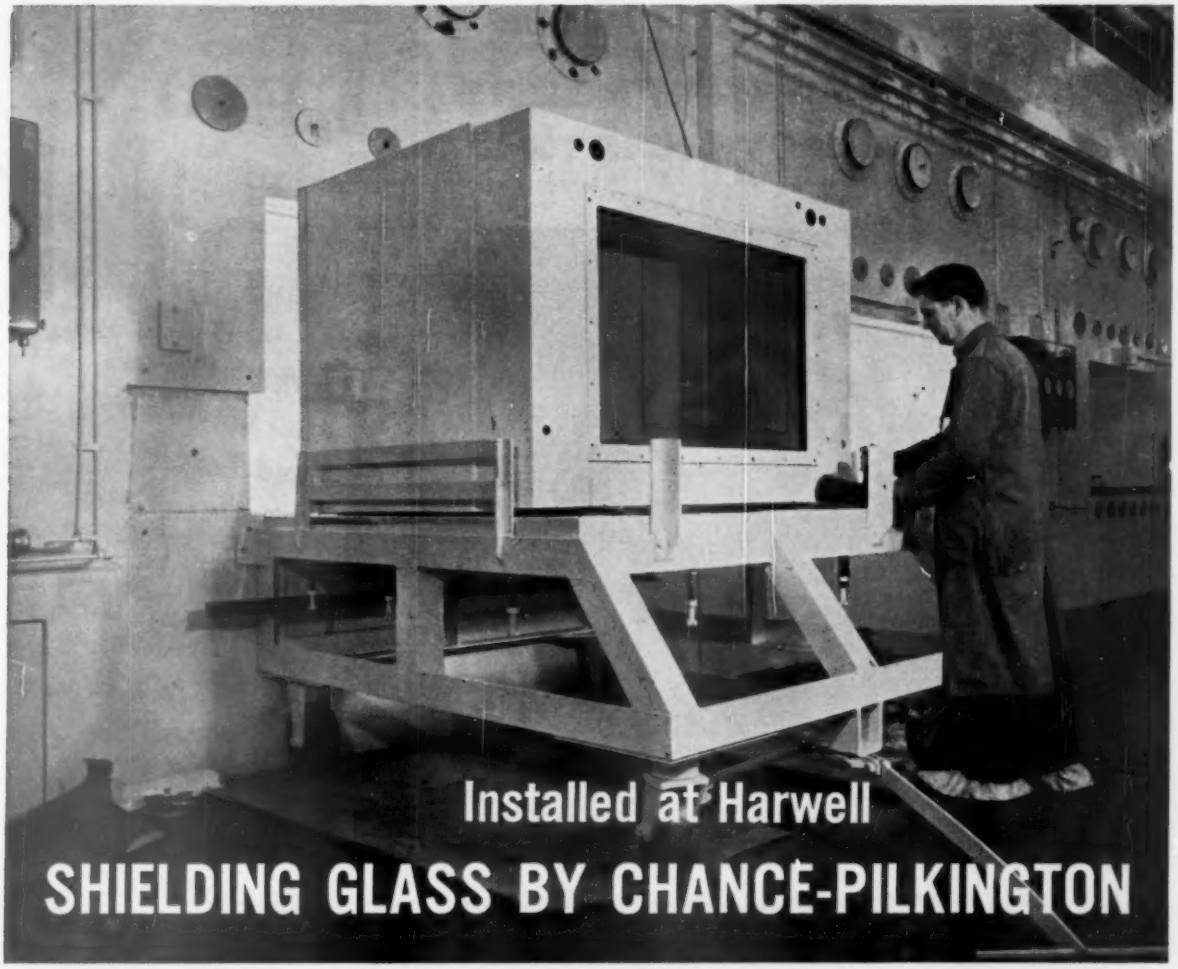

Photograph: A Chance-Pilkington window being inserted at Harwell. (Photograph by kind permission of U.K.A.E.A.)

There are two very important points about this Chance-Pilkington shielding window, shown here under installation at Harwell. First, it is being "cold" side loaded. And second, it is exceptionally large in area. Two of the latest techniques which Chance-Pilkington employ are . . .

* **"Cold" side loading.** To facilitate fitting and removal of window assemblies Chance-Pilkington make available windows suitable for "cold" side loading.
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* Chance-Pilkington supply efficient shielding windows at low cost.

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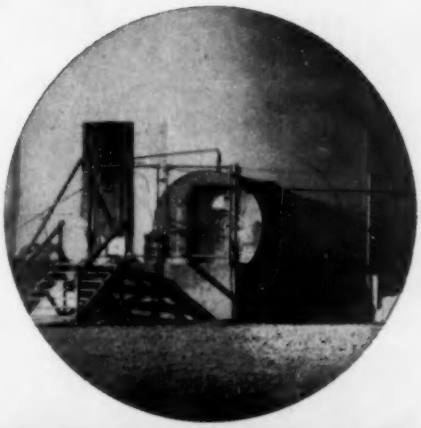
Nuclear power plant equipment

Personnel Air Locks meet AEC Code

G. E.'s Vallecitos BWR is one of eight atomic power plants that have installed or are planning to use Henry Pratt Air Locks. Pratt's experience in this field has developed a basic unit that can be modified for any reactor vessel. The Henry Pratt "door" includes some very desirable features . . . an interlocking device that keeps one door open when the other is closed, automatic or manual controls and choice of compression or pneumatic door seals. Locks are built to withstand any practical pressure, size is no problem, an 8'x10' lock at G. E.'s Test Reactor at Vallecitos will admit trucks.

Write for Bulletin 451

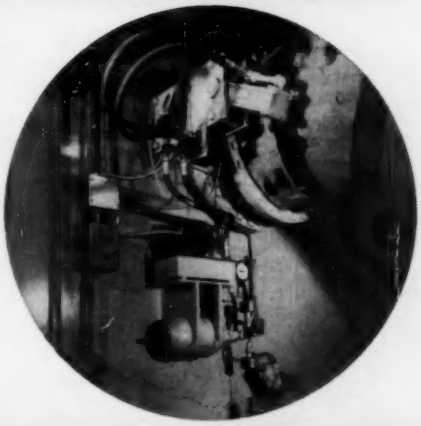


Butterfly Valves that shut in 3/10 of a second

At the MIT Research Reactor two 30" Pratt Quick Acting valves are used in the ventilating system. Their split-second closure is necessary to maintain the integrity of the protective vessel in case of reactor incident. The valves are oil cylinder operated and were shipped complete with a "power package" for easy installation.

These *standard* Pratt valves were chosen for abnormally severe service . . . excellent evidence why Pratt valves are so widely used for handling large volumes of water in condenser service, pump discharge or other power plant applications.

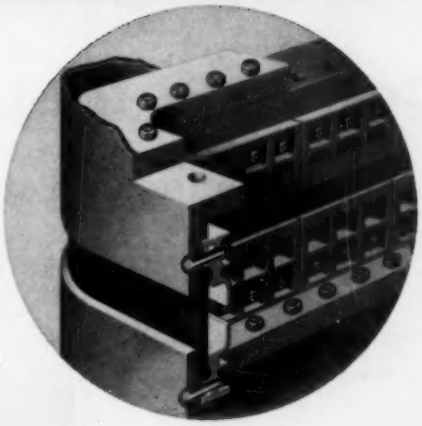
Write for valve manual B-25



Expansion joint simplifies turbine condenser alignment

This rubber belt expansion joint provides a flexible, vacuum tight connection between the turbine and the condenser—and greatly reduces time, trouble and costs in engineering and construction. A reasonable tolerance can be allowed because the Pratt Expansion joint absorbs up to 1" of axial and ½" of lateral movement. Round or rectangular units can be built to any size. If one dimension is less than 14'9", the joint can be shipped fully assembled.

Write for Bulletin 55



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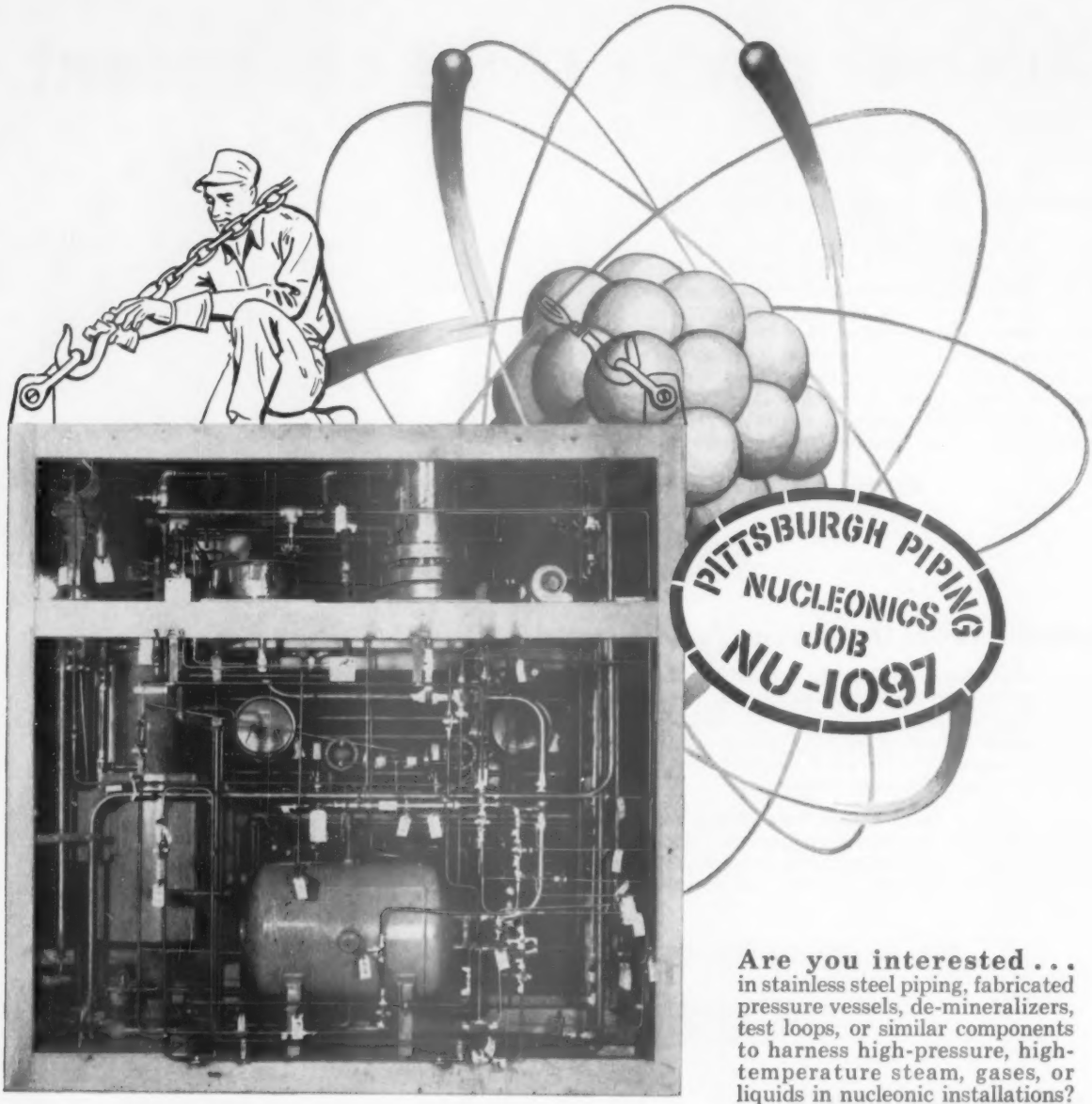

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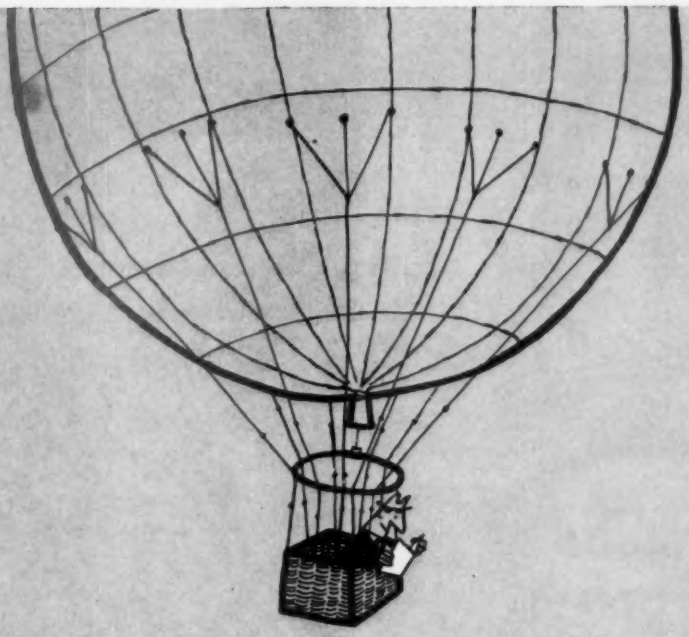

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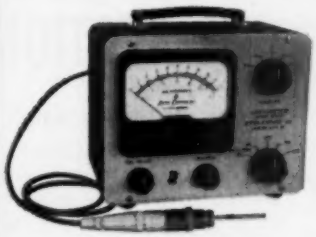

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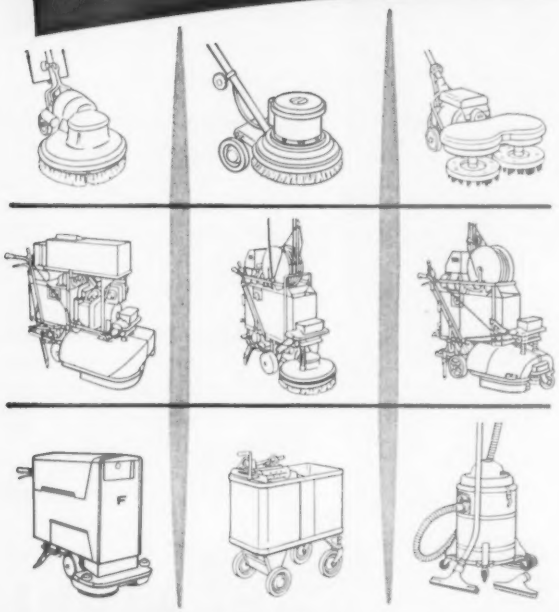

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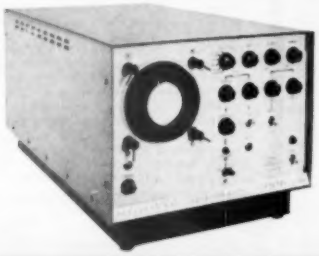

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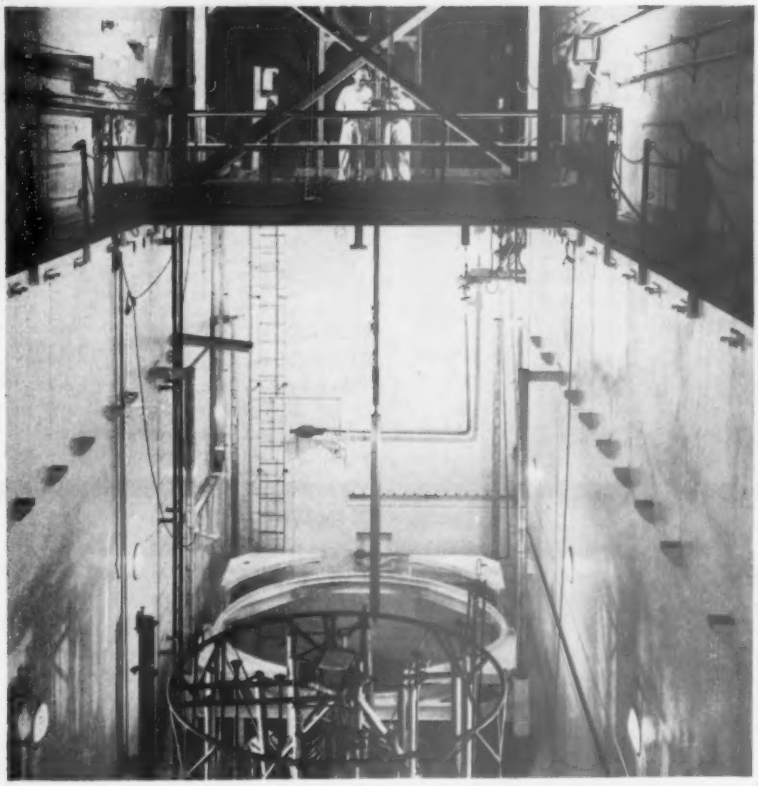

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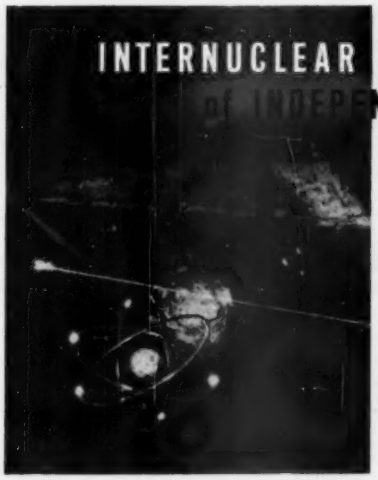

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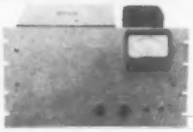

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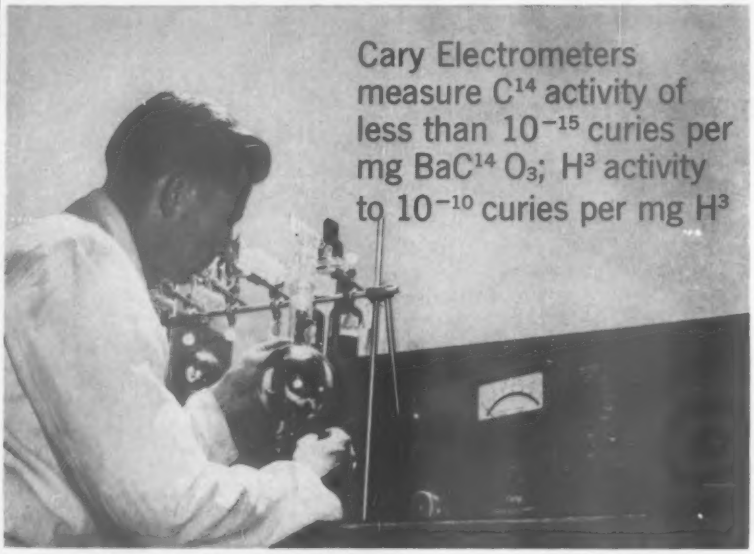

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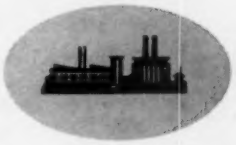

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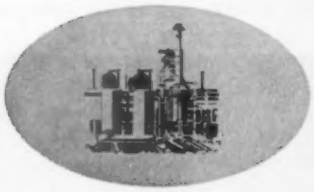

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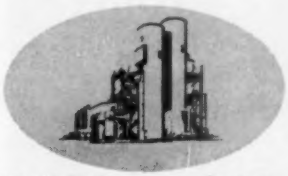

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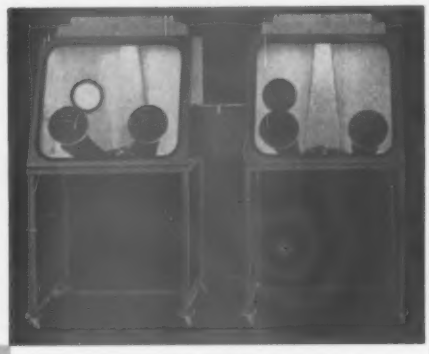

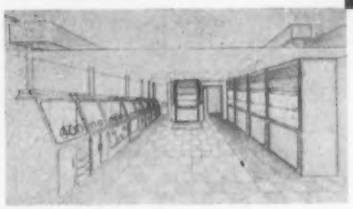

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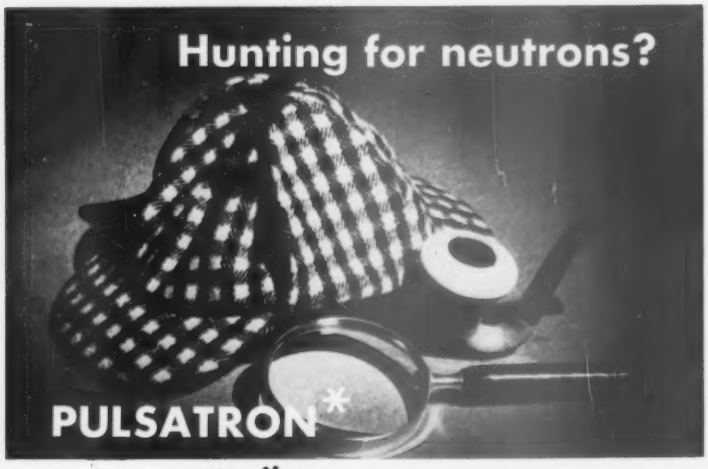

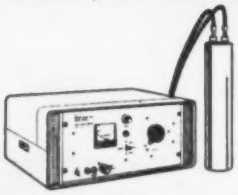

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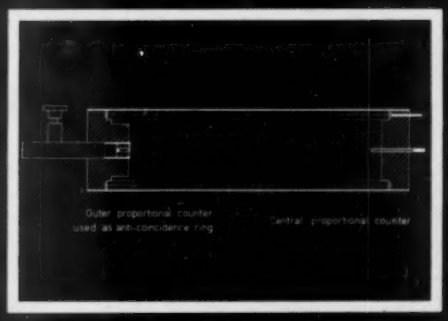

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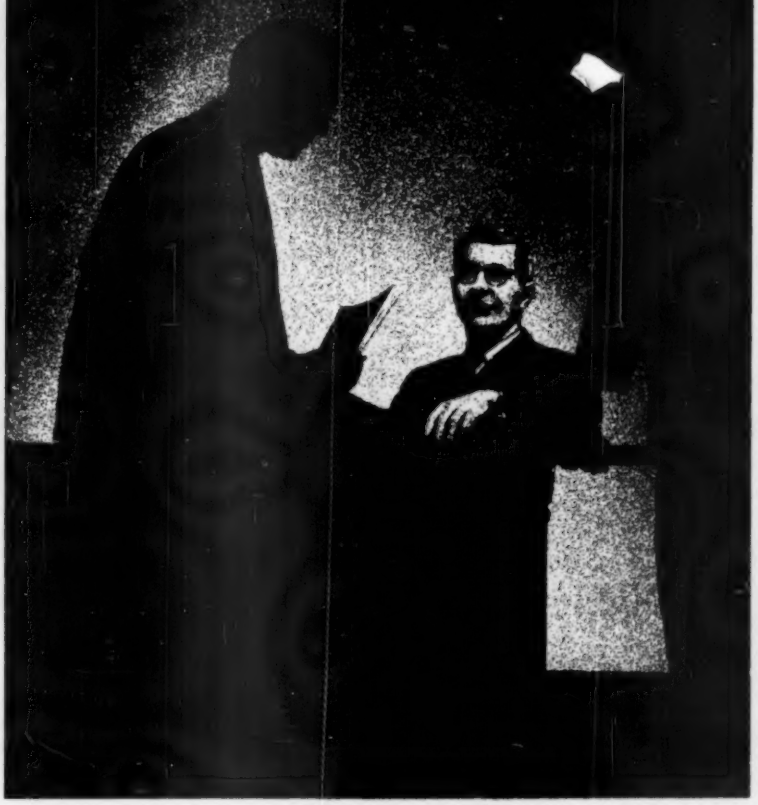

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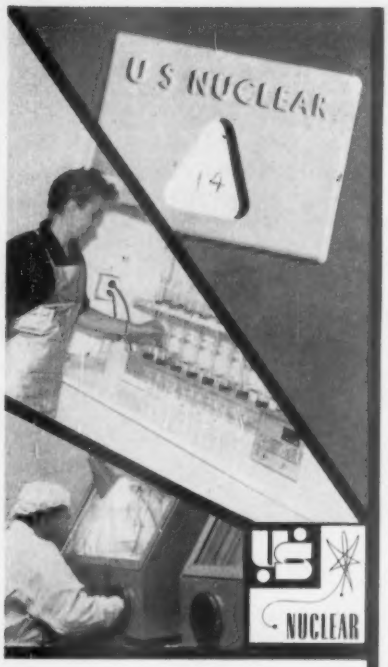

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G-10-20	1" x25"	20"	1500	1800	2000	2200	2050*	135.	120.
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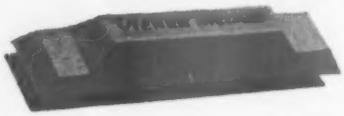

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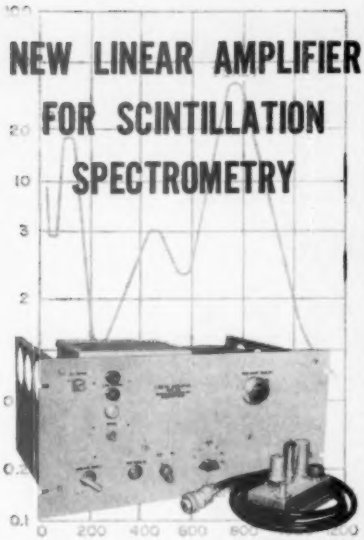

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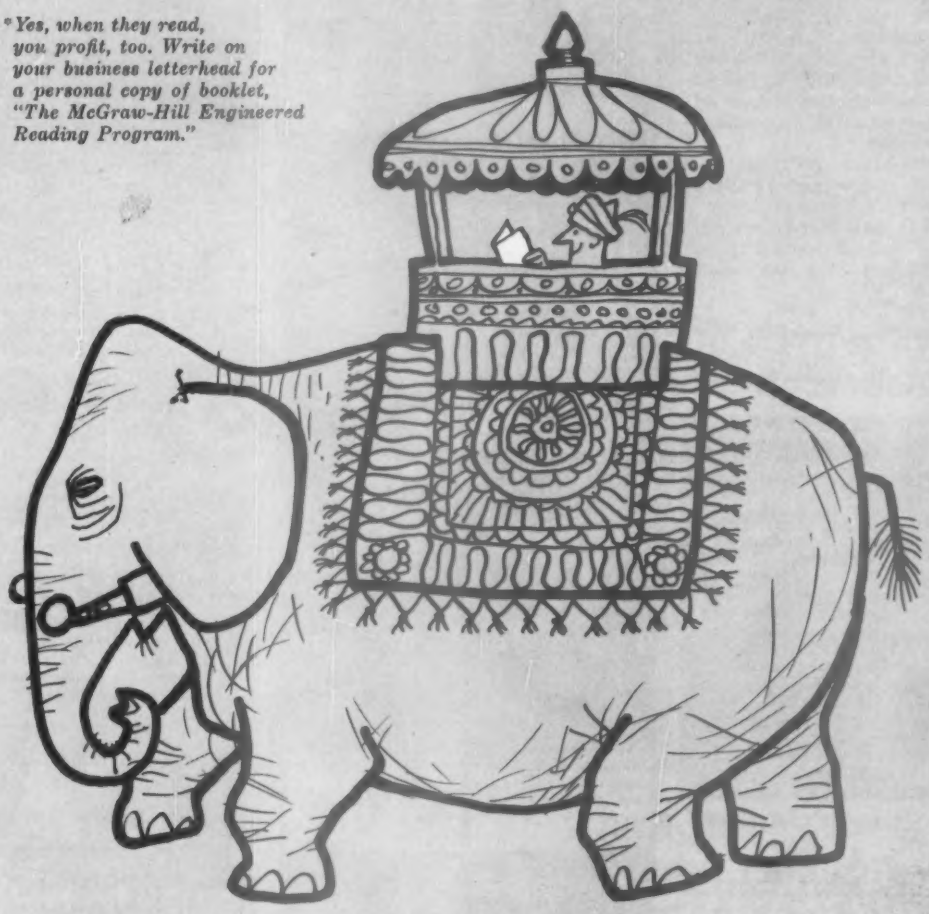

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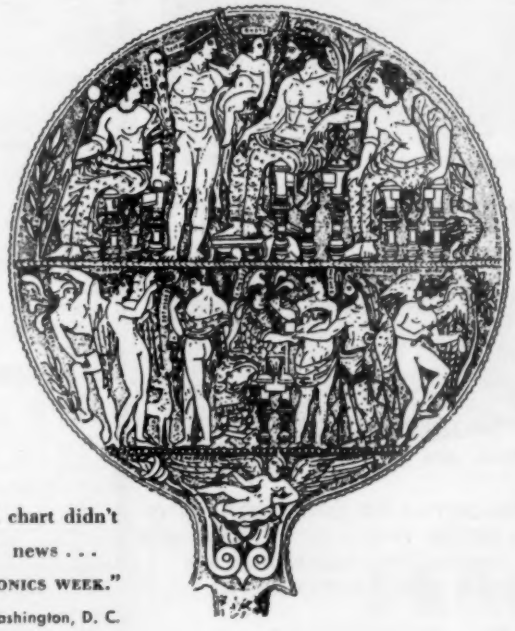

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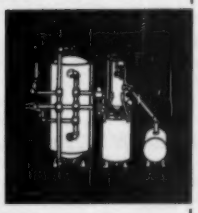

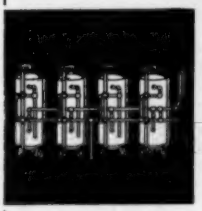

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SC 32-1	0-32	0-1	
SC 32-1.5	0-32	0-1.5	
2SC 32-1.5	0-32	0-1.5	
Dual Output	0-32	0-1.5	
SC 32-2.5	0-32	0-2.5	
SC 32-5	0-32	0-5	
SC 32-10A	0-32	0-10	
SC 32-15A	0-32	0-15	
SC 60-2	0-60	0-2	
SC 60-5	0-60	0-5	
2SC 100-0.2	0-100	0-0.2	
Dual Output	0-100	0-0.2	
SC 150-1	0-150	0-1	
SC 300-1	0-300	0-1	
SC 18-0.5	0-18	0-0.5	0.1%
SC 18-1	0-18	0-1	
SC 18-2	0-18	0-2	
SC 18-4	0-18	0-4	
SC 36-0.5	0-36	0-0.5	
SC 36-1	0-36	0-1	
SC 36-2	0-36	0-2	
SC 3672-0.5	36-72	0-0.5	
SC 3672-1	36-72	0-1	
PSC 5-2	0-7.5	0-2	0.02%
PSC 10-2	7.5-12.5	0-2	
PSC 15-2	12.5-17.5	0-2	
PSC 20-2	17.5-22.5	0-2	
PSC 28-1	22.5-32.5	0-1	
PSC 38-1	32.5-42.5	0-1	
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HB-4	0-325	0-400 ma.	
HB-6	0-325	0-600 ma.	
HB-8	0-325	0-800 ma.	
SR 12-50	5-13	0-50	0.1%
SR 28-50	24-32	0-50	
SR 48-30	44-52	0-30	
SM 14-30	0-14	0-30	0.1%*
SM 36-15	0-36	0-15	
SM 75-8	0-75	0-8	
SM 160-4	0-160	0-4	
SM 325-2	0-325	0-2	
SM 14-15	0-14	0-15	
SM 36-10	0-36	0-10	
SM 75-5	0-75	0-5	
SM 160-2	0-160	0-2	
SM 325-1	0-325	0-1	
SM 14-7	0-14	0-7	
SM 36-5	0-36	0-5	
SM 75-2	0-75	0-2	
SM 160-1	0-160	0-1	
SM 325-0.5	0-325	0-0.5	

*0.01% REGULATION AVAILABLE

MAGNETIC DESIGN GROUP

MODEL	DC OUTPUT VOLTS	DC OUTPUT AMPS.	REGULATION
KM236-15A	0.1-36	0-15	0.5%
KM236-30	0.1-36	0-30	
KM236-50	0.1-36	0-50	
KM 251	2-14	30A or 240W.	±1%
KM 252	5-35	12A or 240W.	
KM 253	20-60	6A or 240W.	
KM 254	30-90	4A or 240W.	
KM 255	60-180	2A or 240W.	

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	#2 0-600	0-200 ma.	
	Parallel 1 & 2 0-600	0-400 ma.	
	Series 1 & 2 0-1200	0-200 ma.	
430D	#1 0-450	0-300 ma.	
	#2 0-450	0-300 ma.	
	Parallel 1 & 2 0-450	0-600 ma.	
	Series 1 & 2 0-900	0-300 ma.	
2400B	#1 0-400	0-150 ma.	
	#2 0-400	0-150 ma.	
	#3 0-150		
	Bias	0-5 ma.	
	Parallel 1 & 2 0-400	0-300 ma.	
	Series 1 & 2 0-800	0-150 ma.	
103	#1 0-300	0-75 ma.	unregulated
	#2 0-300	0-75 ma.	
	#3 -50 to +50	0-5 ma.	
	Parallel 1 & 2 0-300	0-150 ma.	
400B	0-400	0-150 ma.	TO 0.02%
	0-150 Bias	0-5 ma.	
730B	0-350	0-3 Amp.	
720B	0-350	0-2.25 Amp.	
710B	0-350	0-1.5 Amp.	
700B	0-350	0-750 ma.	
780B	0-600	0-3 Amp.	TO 0.01%
770B	0-600	0-2.25 Amp.	
760B	0-600	0-1.5 Amp.	
750B	0-600	0-750 ma.	
605	0-600	0-500 ma.	
	0-150 Bias	0-5 ma.	
615B	0-600	0-300 ma.	
	0-150 Bias	0-5 ma.	
2500	0-2500	0-50 ma.	TO 0.004%
1520B	0-1500	0-200 ma.	
1220C	0-1200	0-50 ma.	
1250B	0-1000	0-500 ma.	
KR16	0-150	1.5 Amp.	0.1%
KR17	100-200	1.5 Amp.	
KR18	195-325	1.5 Amp.	
KR19	295-450	1.5 Amp.	
KR8	0-150	600 ma.	
KR5	100-200	600 ma.	
KR6	195-325	600 ma.	
KR7	295-450	600 ma.	
KR12	0-150	300 ma.	
KR3	100-200	300 ma.	
KR4	195-325	300 ma.	
KR10	295-450	300 ma.	
KR11	0-150	125 ma.	
KR1	100-200	125 ma.	
KR2	195-325	125 ma.	
KR9	295-450	125 ma.	

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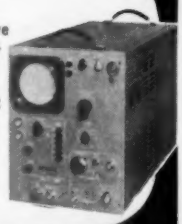

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MODEL 222 SAMPLING CONVERTER
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MODEL 503 DIODE RECOVERY TEST SET
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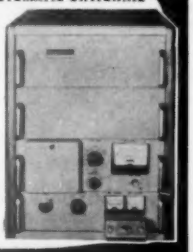

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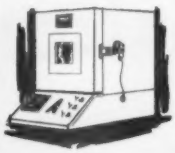

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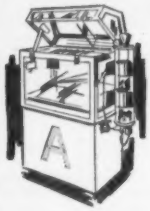

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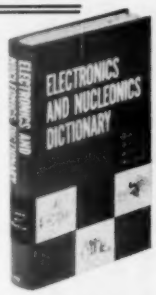

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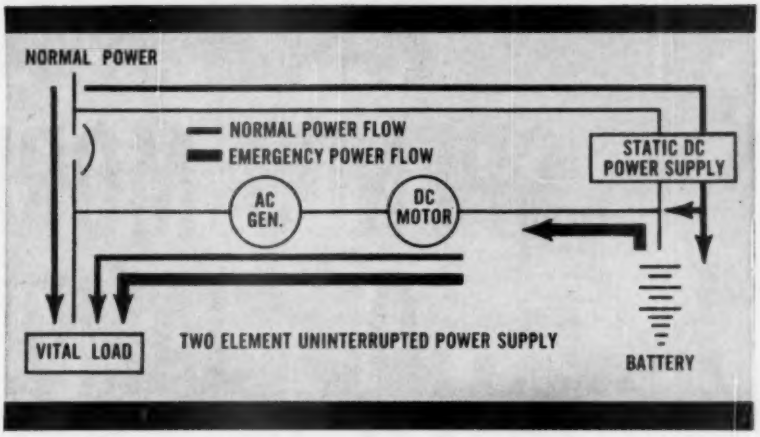

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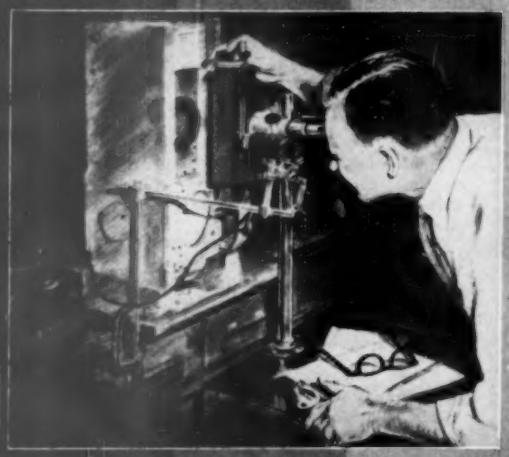

Following pioneer achievements in reactor power plant developments, the Knolls Atomic Power Laboratory is now studying major problems in reactor and power plant simplification. Solutions to be achieved may considerably advance nuclear reactor applications.

Working on unique developmental problems at KAPL, engineers and scientists have access to an unusually broad range of specially-designed experimental and test equipment... as well as the advantages of inter-professional consultation with experts in a number of related fields. Advanced nuclear studies are available at both the Laboratory and nearby colleges.

NEW OPENINGS ANNOUNCED

FOR NUCLEAR ENGINEERS AND SCIENTISTS

You are invited to inquire about openings in:

Mechanical Equipment Design / Control & Instrumentation Design / Reactor Design Analysis / Power Plant Test & Analysis / Reactor Physics / Nuclear Analysis / Coolant Technology / Computer Programming / Radiological Physics.

Please write fully in strict confidence to Mr. A. J. Scipione, Dept. 48-MK U.S. Citizenship and appropriate engineering or scientific degree required.

Knolls Atomic Power Laboratory

OPERATED FOR A E C BY

GENERAL ELECTRIC

Schenectady, New York

NUCLEAR OR ENGINEERING PHYSICIST FOR DEVELOPMENT DEPARTMENT

To be responsible for Radiation Dosimetry applied to Isotope Production. This position will include the development of new or improved measurement techniques for alpha, beta, gamma and neutron sources in a wide range of energies and activities.

Work with a group of specialists carrying out studies in the following fields:

- Radioisotope Production
- Cobalt 60 and Caesium Therapy Units
- Gamma Irradiation Facilities
- Portable Neutron Sources
- Nuclear Instrumentation
- Radiography Equipment
- Custom Design Projects
- Specialized Consultations on Tracer Problems, Radiation Shielding
- Effects of Radiation on Foods, Drugs, Plastics and other related areas.

This is a challenging opportunity to work in a Canadian company—A leader in applying radioisotopes to Industrial, Research and Medical Uses.

If you have some experience in this field, send inquiries to:

Personnel Officer,
Atomic Energy of Canada Ltd.,
Commercial Products Division,
Ottawa, Canada.

NUCLEAR SUPERHEAT

One of the advanced concepts that

GENERAL NUCLEAR ENGINEERING CORPORATION

is developing for construction in the ***immediate*** *future*

Graduate Engineers and Physicists with reactor design experience will find stimulating and rewarding opportunities in these boiling-superheating reactors, in gas-cooled reactors, and in other *practical* advanced concepts at General Nuclear.

Positions are also open for new graduates. Work in small design and development groups of broad scope gives maximum opportunity for advancement and for professional development.

Send resumes to: L. C. Furney
GENERAL NUCLEAR ENGINEERING CORP.
Dunedin, Florida

SENIOR ENGINEERS AND SCIENTISTS IN THE FIELD OF NUCLEAR DEVELOPMENT

Atomic Power Development Associates, Inc. invites inquiries for current openings in the fast breeder reactor program.

ENRICO FERMI ATOMIC POWER PLANT

Currently APDA is actively engaged in the Enrico Fermi Fast Breeder Reactor program with challenging assignments: the nuclear startup program to demonstrate reactor stability and predicted nuclear characteristics, presently in the planning stage for the first core; the development of a second and a third core loading in conjunction with Oak Ridge National Laboratory.

Additional work to develop more economical and efficient fast reactor systems is being conducted in support of the AEC 10-year program.

APDA, the pioneer in industrial fast breeder reactor development, offers diversity, challenge and an excellent opportunity for rapid development.

Mail resume of qualifications to:

Frank Nitzberg
Atomic Power Development Associates, Inc.
1911 First Street
Detroit 26, Michigan

nuclear instrumentation engineer

We seek a qualified engineer capable of assuming important responsibilities for our nuclear engineering staff.

Several years experience in the design and specifying of reactor controls and other nuclear instrumentation for power and research reactors. Capabilities in systems analysis desirable.

Please reply in confidence to Mr. J. Mortellaro

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Engineers & Constructors
160 West Broadway
New York, N. Y.

for POSITIONS in the NUCLEAR FIELD...

WRITE US FIRST!
Use Our Application
No Resume Required

Our national coverage and technical experience in the nuclear field offers the maximum opportunity to achieve your goals.

Confidential Handling
Employer Pays Fee

Write: Arthur L. Krasnow

ATOMIC PERSONNEL, INC.

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An Employment Agency for the Nuclear Field

RADIOCHEMIST

Major petroleum Research Center has position open for Physical Chemist—Ph.D. or equivalent, who is experienced in activation analysis and radiotracer techniques. Challenging work; modern facilities; liberal publication policy; salary open.

Address inquiries to:

Employment Manager
Gulf Research & Development Co.
P.O. Drawer 2038, Pittsburgh 30, Pa.

An employment advertisement in this EMPLOYMENT OPPORTUNITIES section will help you find the engineers you need. It's an inexpensive, time-saving method of selecting competent personnel for every engineering job.

IMPORTANT

PROGRESS TOWARD ADVANCED

AIRCRAFT

—THROUGH NUCLEAR POWER

—the flight vehicle which can live in the air as easily and confidently as a ship lives in the sea—will be powered by a nuclear reactor, the only source of energy which can provide virtually unlimited range and endurance for aircraft, for high altitude or on the deck, long range military air missions.

When the program to produce such a nuclear propulsion system was started at General Electric in May, 1951, experts then felt that the project might take twenty years.

But today, little more than nine years later, the Aircraft Nuclear Propulsion Department of General Electric has developed and demonstrated the basic technology required to build and fly a high performance aircraft nuclear propulsion system.

During the 9-year span of effort, General Electric engineers and scientists have achieved major breakthroughs in reactor technology, shielding techniques, high temperature resistant materials, specialized controls capable of functioning reliably in a high density radiation environment, and in other areas.

One of these technical achievements is discussed to the right in capsule article form. In succeeding announcements other interesting technical advances at the Aircraft Nuclear Propulsion Dept. of General Electric will be discussed.

ADVANCES IN NUCLEAR SHIELDING TECHNIQUES

As the shield is the largest weight item in the propulsion system, major effort has been applied to shield theory, experiment and design since the initiation of the Aircraft Nuclear Propulsion program.

The dimensions of the problem faced are evident when you consider that General Electric engineers had to find a way to reduce shielding weights from hundreds and thousands of tons for stationary nuclear power plants by orders of magnitude.

One of the major gains registered was the concept of the divided shield, i.e. dividing the shielding between the power plant and the crew compartment. This concept takes advantage of the fact that even the most sensitive component of the system can withstand 10,000 times the amount of nuclear radiation that a human being can tolerate.

This concept has been defined through the use of improved analytical techniques to produce detailed radiation patterns around reactor shield assemblies. New computer programs, and new calculation techniques developed at General Electric have yielded invaluable data for the design of sophisticated shielding configurations.

Additional improvements have been attained through study of materials. Materials not formerly employed for reactor use have been developed and applied. Design techniques have been created which take maximum advantage of these materials.

These theoretical and experimental investigations have resulted in shields which are so light that nuclear aircraft need be no heavier than present day airplanes. Shielding weight is no longer a critical problem.

Although much has been accomplished, further improvements in shielding technology are being developed through improved calculation methods, advanced materials development and more sophisticated structural design.

Opportunities exist today for Engineers and Scientists from many disciplines to contribute to precise solutions of a variety of sophisticated problems pertaining to the final development stage of General Electric's nuclear propulsion system for high performance aircraft.

Openings available in both Cincinnati, Ohio and Idaho Falls, Idaho for:

Metallurgists; Ceramists; Mathematicians; Technical Editors; Mechanical, Electrical, and Chemical Engineers; Nuclear and Solid State Physicists; Physical Chemists.

If you have an interest, and qualifications, in any of these areas, please write in confidence to: Mr. George Hunsinger, *Manager, Professional Personnel. Room 48-MK.*

AIRCRAFT NUCLEAR PROPULSION DEPARTMENT

GENERAL ELECTRIC

P.O. BOX 132 CINCINNATI 15, OHIO

ENGINEERS—TECHNICIANS

In connection with our expanding activities in nuclear power, we have opportunities for qualified personnel in the following fields:

REACTOR SYSTEMS

—Engineers with experience in development and analysis of nuclear plant systems and components.

WATER CHEMISTRY

—Chemist with specialized experience in water quality control for reactor operations.

NUCLEAR PLANT TESTING

—Engineers or physicists with substantial test and start-up experience; marine application desirable.

REACTOR PHYSICS

—Physicist experienced in application of nuclear physics to design and test of nuclear reactors.

HEALTH PHYSICS

—Monitors, Senior & Junior.

NUCLEAR INSTRUMENTATION

—Extensive experience on reactor control and radiation monitoring & instrumentation, including installation and maintenance. College degree not essential.

REACTOR OPERATIONS

—Experienced operators, preferably with experience in pressurized water plants, criticality and start-up operations; marine experience desirable, college degree not essential.

NEW YORK SHIPBUILDING CORPORATION
CAMDEN 1, NEW JERSEY

OPPORTUNITIES

For Work in a Diversified
NUCLEAR REACTOR
Program Involving

Civilian Power Reactors
Military Reactor Projects
Nuclear Reactor Technology
Reactor Research & Development

Immediate Openings in Oak Ridge for:

REACTOR ENGINEERS
REACTOR PHYSICISTS
REACTOR CHEMISTS

Professional Engineering or Scientific degrees required. Experience in nuclear energy desired. $7560 to $14,290 per annum.

Write or send resumes to:

Atomic Energy Commission
Oak Ridge Operations Office
P. O. BOX E Oak Ridge, Tennessee

MANAGER ENERGY CONVERSION RESEARCH

Research Division of a well-known West Coast military products corporation needs a manager-scientist in static energy conversion system. Recent promising developments dictate an acceleration of technical effort with comparable management and marketing support. Should have working knowledge of plasma physics and solid state physics; be familiar with chemistry, nucleonics and materials technology to pursue investigations in thermionic energy conversion. Would require Ph.D. or equivalent, management and marketing ability coupled with substantial technical experience. Direct your confidential inquiries to

P-5408 Nucleonics
1125 W. 6th St., Los Angeles 17, Calif.

REACTOR ENGINEERS

Expansion by the Princeton Division of the CURTISS-WRIGHT Corporation in reactors, isotope irradiators, and nuclear controls and instrumentation has created a need for several mechanical, electro-mechanical, or electronic engineers with minimum 2–3 years experience in reactor design and construction. Operations license desirable but not mandatory. Relocation expenses paid.

Send detailed resume in confidence to D. G. Bartrip
Curtiss-Wright Corp.
P. O. Box 110, Princeton, N. J.

"Put Yourself in the Other Fellow's Place"

TO EMPLOYERS

TO EMPLOYEES

Letters written offering Employment or applying for same are written with the hope of satisfying a current need. An answer, regardless of whether it is favorable or not, is usually expected.

MR. EMPLOYER, won't you remove the mystery about the status of an employee's application by acknowledging all applicants and not just the promising candidates.

MR. EMPLOYEE you, too, can help by acknowledging applications and job offers. This would encourage more companies to answer position wanted ads in this section. We make this suggestion in a spirit of helpful cooperation between employers and employees.

This section will be the more useful to all as a result of this consideration.

Classified Advertising Division

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330 West 42nd St., New York 36, N. Y.

DESIGN ENGINEER . . . $14,000 per year
To head AMCS Test Equipment Group, Computer Test Equipment Design, and entire Fire Control Test equipment design. Supervise dept. of 12 other engineers . . . Company client assumes all employment expense.

ESQUIRE PERSONNEL
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Phone HArrison 7-6337

SELLING OPPORTUNITY AVAILABLE

Nuclear equipment manufacturer and engineer specializing in irradiation and hot cell equipment, shipping containers and nuclear devices desires sales agents for open territories (mid-west, N.Y., N.J., New England, Pennsylvania, Washington, D.C.). Radiation Products, Ft. 40th Rd., Flushing, N.Y.

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New Plastic Radiation WARNING SIGNS
Made to AEC Specs. Also special wording.
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For Your Atomic Energy Problems
Nuclear Analyses, Reactor Specifications and Designs, Radiation Shielding Design and Analysis, Criticality Hazards Studies, Thermodynamics and Heat Transfer Analysis, Facilities Planning, Health Physics.
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VAnce 8-4386 CABLE: "ASTRA"

NUCLEAR TECHNOLOGY CORPORATION
Consultants to the Nuclear Industry
Reactor conceptual design, reactor physics, heat transfer and fluid flow, shielding, reactor mechanical design, hazards evaluation, nuclear economics, reactor evaluation, computer techniques.
President, Joseph De Felice
Irvington, New York LYric 1-8820

FPD PROFESSIONAL EMPLOYMENT NEWS

PUBLISHED BY THE FLIGHT PROPULSION DIVISION OF GENERAL ELECTRIC IN CINCINNATI, OHIO / NOVEMBER, 1960

FPD NEWS offers latest information on openings throughout the Division to interested engineers and scientists. Technical information and news relating to current projects will also appear from time to time in this column.

General Electric Forms New Space Power Operation

A new Space Power Operation has been formed by the Flight Propulsion Division to consolidate advances achieved in space power and propulsion during the past 3-4 years. The move will join in a single organization the design and development of systems to power accessory equipment and electrical propulsion engines for advanced outer space vehicles.

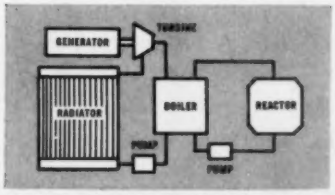
According to FPD General Manager David Cochran, "Progress in the space power field has developed to the point where an organization of this nature can most fully utilize the technology being created." He added that the Space Power Operation would integrate new projects into company-wide space efforts.

Nuclear Power Stressed by Operation Manager

M. A. Zipkin, who previously guided FPD's advanced propulsion systems activities as Manager of Thermodynamics, will head the Space Power Operation. Commenting on the work of his new group, Mr. Zipkin emphasized the high efficiency potential of nuclear-powered turbomachinery.

Investigations already underway are centered on nuclear turbogenerator systems using high temperature liquid metal as the working fluid.

Other future requirements for space power systems have been defined to include power sources for manned and unmanned vehicles on interplanetary probes, lunar-based power sources, power for large orbiting satellites and powered relay communications stations.



Simplified schematic of potassium two-phase power supply. Primary loop carries heat from the reactor to boiler heat exchanger by means of high temperature, high pressure liquid metal. In the boiler, fluid flowing in the second loop is completely vaporized, expands through a turbine driving the electric generator and system pump, passes on to the radiator for condensation and return to the boiler.

Diversified Programs Offer Many Opportunities

Programs of continuing importance at FPD include further development of the J93 engine, to power the B-70 and the CJ-805-23 aft-fan turbojet destined to see commercial airline service next year. Progress in Lift Fan development, new engines and applications, rockets and space propulsion document the greater opportunities for professional achievement at FPD.

▸ ***Immediate Openings in Space Power Operation and Other Expanding Areas***

Liquid Metals Systems / Physical & Analytical Chemistry / Electrical Control Components Design / Engine Controls Systems Design / Thermodynamic Cycle Design Analysis / Metallurgical Engineering / Turbomachinery Design / Ion & Plasma Propulsion / Liquid & Solid Rocket Development

For more information, write informally, or forward your resume in confidence to Mr. Mark Peters, Dept. 48-MK

FLIGHT PROPULSION DIVISION

GENERAL ELECTRIC

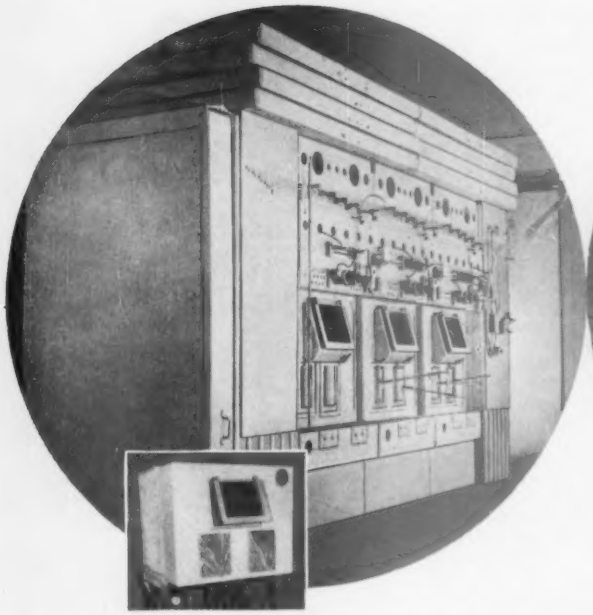
BUILDING 100 CINCINNATI 15, OHIO

a complete shielding company

RAY PROOF CORPORATION

The world's oldest and most respected name in radiation shielding...

now entering our 4th decade



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Prefabricated hot cells of two basic designs available: Conventional type and type utilizing portable sealed cave boxes. Hot cells furnished complete including all mechanical and structural elements.

PRECAST HI-DENSITY CONCRETE BLOCKS

Available in three basic designs of six sizes each. Manufactured of special compositions for densities up to 300 pounds per cubic foot. Certain sizes and densities may be shipped from stock should emergencies arise.

RAY 'PROOF designs and manufactures materials and devices for shielding against X-Ray, Gamma Ray and Neutrons: Such as Shielded Doors, Windows, Rooms, Mechanical Production Shielding Devices, High Density Concrete Blocks, Containers, Cells, Safes, Screens, Portable Shielded Enclosures, Hot Cell Shielding Components and Fume Hoods.

Write for New Nuclear Shielding Catalogue—Just issued

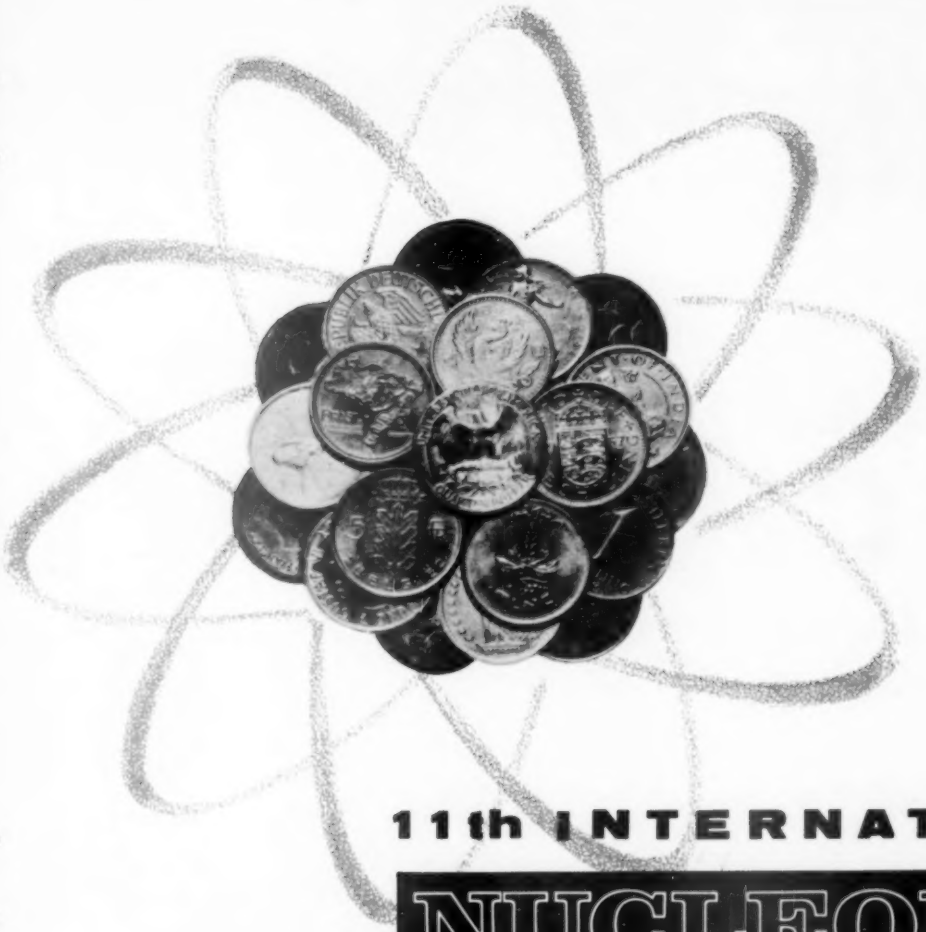
RAY PROOF CORPORATION
STAMFORD, CONNECTICUT

RAY PROOF

PIONEERS IN THE CREATIVE USE OF MATERIALS FOR RADIATION SHIELDING

→ TO LOCATE NEAREST SALES OFFICES, SEE GREEN SECTION.

When ordering or seeking information, please mention NUCLEONICS BUYERS' GUIDE ISSUE.



PRODUCT, MATERIAL & SERVICES/MANUFACTURERS SALES OFFICES

11th INTERNATIONAL NUCLEONICS 1960-61 BUYERS' GUIDE

In the preparation of the NUCLEONICS BUYERS' GUIDE, every effort was made to insure the completeness and accuracy of the Product Listings according to the information provided by the manufacturers.

The listings were compiled from information provided by more than 2,200 companies manufacturing nuclear products, and include all products that will be available in the coming year, insofar as the BUYERS' GUIDE staff and the companies themselves can determine. The listings are based on questionnaires received from these companies that comprise the nucleonics industry.

Products are arranged and indexed in a simple, easy-to-find, telephone book style. Names of manufacturers who are advertisers in the BUYERS' GUIDE Issue are bold-faced in the listings and page numbers of their advertisements are shown. This makes it possible to obtain complete information on products quickly and easily by referring to the advertising pages.

CONTENTS

The 1960-61 International NUCLEONICS BUYERS' GUIDE contains:

- Approximately 1,000 product categories
- Greater breakdown of products by sub-classification
- More than 250 cross-references
- Lists manufacturers' sales offices — addresses and phone numbers (Green section)

In order to get the most out of your BUYERS' GUIDE, follow the instructions below.

...IN PART I (YELLOW SECTION)

PRODUCT, MATERIAL AND SERVICES CLASSIFICATIONS . . .

Listings are in alphabetical order in the Product, Material and Service Listings Section in an easy-to-use telephone book style with the manufacturers of each product listed directly below. Advertisers' names are bold-faced with advertising page numbers indicated. For specifications on products, materials or services in which you are interested, refer to the advertising page numbers shown. There are more than 200 new product classifications in this issue for a total of approximately 900 product categories.

CROSS-REFERENCES

There are more than 200 cross-references in the Product, Materials and Services Listings to distinguish generic terms. Synonyms, regional speech differences to describe the same product, and new terms for established products account for the number of cross-references neeeded to satisfy the industy's requirements for quick and accurate listings.

...IN PART II (GREEN SECTION)

MANUFACTURERS' SALES OFFICES

After referring to the Product, Materials and Services Listings and the advertising pages, in those instances where more buying information is desired, turn to the Manufacturers' Index (Green Section). Following the company name you can locate the nearest local sales office of the manufacturer of the product. This is a one-step method to locate the nearest source of supply. Complete addresses of local sales offices with phone numbers are shown for each company.

Every effort has been made to insure completeness and accuracy according to information supplied by the companies questionnaired. Companies who are advertisers in this issue are BOLD-FACED in the listings and page numbers of their advertisements shown. This makes it possible to obtain complete buying information on products, materials or services quickly and easily by referring to those pages.

IMPORTANT: Advertising page numbers that contain a lettered suffix, (that is 272-a) ,do not appear in the American (domestic) issue. To obtain this section (without cost to subscribers) a request on company letterhead should be sent to: Buyers' Guide Manager, Nucleonics, 330 West 42nd Street, New York 36, N. Y.

Compiled by the Research Staff of NUCLEONICS

ABSORBERS—RADIATION
See Also SHIELDING—RADIATION

Acheson Colloids Co.	1635 Washington Ave. Port Huron	Mich
AMERAY CORP. Adv Pg 114	**Route 46, Kenvil**	**NJ**
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Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
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ATOMIC DEVELOPMENT & MACHINE CORP. Adv Pg 128	**15-04 130 St. College Point 56.**	**NY**
ATOMIC RESEARCH LAB. Adv Pg 61	**14725 Arminto Ave. Panorama City**	**Cal**
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BROOKS & PERKINS, INC. Adv Pg 48	**1926 W Fort St. Detroit 16**	**Mich**
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Emerson & Cuming, Inc.	59 Walpole St. Canton	Mass
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Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
McMillan Industrial Corp.	Brownville Ave. Ipswich	Mass
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Norton Co.	1 New Bond St. Worcester 6	Mass
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	**345 E Howard Ave. Des Plaines**	**Ill**
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	**5 New St. White Plains**	**NY**
Nuclear Research Applications Ltd.	Bell St. Reigate, Surrey, England	
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PICKER X-RAY CORP. Adv Pg 189	**25 S Broadway, White Plains**	**NY**
Plastimayd Corp.	2204 SE 7th Ave. Portland 14	Ore
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Radiation Hazard Control Co.	Fort Atkinson	Wis
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 276I	**61 E North Ave. Northlake**	**Ill**
RAY-PROOF CORP. Adv Pg 276	**843 Canal St. Stamford**	**Conn**
Servonuclear Corp.	28-21 Astoria Blvd. Long Island City	NY
TECHNICAL ASSOCIATES, Adv Pg 41	**140 W Providencia Ave. Burbank**	**Cal**
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd. Waltham 54**	**Mass**
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walsh Associates, Charles	Box 244, Deerfield	Ill

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AEG, 3, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd. 3-7-10	33 Grosvenor Pl. London SW1, Eng	
A.E.I. LTD. INSTRUMENTATION DIV. 5, Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
ALLIS-CHALMERS MFG. CO. 1-3-7-8, Adv. Pgs. 45, 47	**935 S 70th St. Milwaukee 1**	**Wis**
Alsthom, Nuclear Div. 7	38, Ave. Kleber, Paris 16, France	
Applied Radiation Corp. 6	2404 N Main St. Walnut Creek	Cal
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 2, Adv Pg 276AA	**Charleroi, Belgium**	
COSMIC, INC. 2, Adv Pg 133	**1828 Connecticut Ave. Washington 6**	**DC**
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PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 2-3-5-7, Adv Pg 267	**Eindhoven, The Netherlands**	
Radiation Dynamics Inc. 4	Westbury Industrial Pk. Westbury	NY
Siemens-Reiniger-Werke AG. 1	Luitpoldstr. 45, Erlangen, Germany	
TEXAS NUCLEAR CORP. 2, Adv. Pgs. 228, 229	**Box 9267, Allendale Sta. Austin 17**	**Tex**
TOKYO SHIBAURA ELECTRIC CO., LTD. 1-3-5-7-10, Adv Pg 276D	**12 Yoroku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
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Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
X-Ray Dept. General Electric Co. 6	4855 Electric Ave. Milwaukee	Wis

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ACTIVATION ANALYSIS
See SERVICES: ACTIVATION ANALYSIS

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Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
American Bosch Arma Corp.	320 Fulton Ave. Hempstead	NY
Ansco Div. Gen. Anil. & Film Corp.	175 Clinton St. Binghamton	NY
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Bliss Co., E. W.	1375 Raff Rd. SW, Canton	Ohio
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Controls Co. of America	9555 Soreng Ave. Schiller Park	Ill
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	**Box 748, Fort Worth**	**Tex**
Copes-Vulcan Div. Blaw-Knox Co.	939 W 26 St. Erie 4	Pa
Dalmo Victor Co. Div. Textron Inc.	1515 Industrial Way, Belmont	Cal
Dewrance & Co., Ltd.	Great Dover St. London SE1, England	
Electronic Communications, Inc.	1501 72nd St. N. St. Petersburg	Fla
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
EX-CELL-O CORP. Adv. Pgs. 62, 63	**1200 Oakman Blvd. Detroit 32**	**Mich**
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
General Controls Co.	801 Allen Ave. Glendale 1	Cal
Graflex, Inc.	3750 Monroe Ave. Rochester 3	NY
Guardian Electric Mfg. Co.	1550 W Carroll Ave. Chicago 7	Ill
Jordan Controls Inc.	3235 W Hampton Ave. Milwaukee 9	Wis
KEARFOTT DIV. GEN. PRECISION, INC.		
Adv Pg 269	**1150 McBride Ave. Little Falls**	**NJ**
L. & F. MACHINE CO. Adv Pg 238	**2110 Belgrove Ave. Huntington Park**	**Cal**
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
Leemath, Inc.	Oak Dr, Syosset	NY
LINCOLN FOUNDRY CORP. Adv Pg 238	**2523 E 49 St. Los Angeles**	**Cal**
Marvel-Schebler Products Div. Borg-Warner Corp.	2195 S Elwin Rd. Decatur	Ill
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
N.S.F. Ltd.	31-32 Alfred Pl. London, W.C. 1, Eng	
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	**5 New St. White Plains**	**NY**
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Patterson Moos Research Div. Leesona Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Phillips Controls (GB) Ltd.	273 Farnborough Rd. Farnborough, Hants	Eng
Precision Mechanisms Corp.	577 Newbridge Ave. East Meadow	NY
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Rousseau Controls Ltd.	640 Decourcelle St. Montreal, Que. Can.	
Servomechanisms Inc.	200 Aviation Blvd. El Segundo	Cal
Sperry Phoenix Co. Div. Sperry Rand Corp.	21111 N 19 Ave. Phoenix	Ariz
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
TELEFLEX INC. Adv Pg 118	**Church Rd. North Wales**	**Pa**
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
Valcor Engineering Corp.	333 Carnegie Ave. Kenilworth	NJ
Vard	2981 E Colorado, Pasadena	Cal
Waltham Precision Instrument Co.	221 Crescent St. Waltham 54	Mass
Western Gear Corp.	Box 182 Lynwood	Cal
Wheelock Signals, Inc.	273 Branchport Ave. Long Branch	NJ
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore

ADHESIVES

American Products Mfg. Co. Inc.	8127-33 Oleander St. New Orleans 18	La
Armstrong Cork Co.	Lancaster	Pa
Bacon Industries, Inc.	192 Pleasant St. Watertown	Mass
Biggs Co., Carl H.	1547 14th St. Santa Monica	Cal
Bios Laboratories, Inc.	17 W 60th St. New York 23	NY
CARBOLINE CO. Adv Pg 252	**32 Hanley Ind. Ct. St. Louis 17**	**Mo**
Chemical Development Corp.	Endicott St. Danvers	Mass
Chemical Process Co.	Box 829, Redwood City	Cal
Connecticut Hard Rubber Co.	New Haven 9	Conn
Devcon Corp.	Endicott St. Danvers	Mass
Dow Corning Corp.	Midland	Mich
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Emerson & Cuming, Inc.	59 Walpole St. Canton	Mass
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Foster Co., Benjamin	4635-37 W Girard Ave. Philadelphia 31	Pa
Fuller Co., H. B., Resiweld Div.	255 Eagle St. St. Paul 2	Minn
Gleaner Co., A. J.	975 Bryant St. San Francisco 3	Cal
Hysol, Inc.	Olean	NY
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
Morningstar Paisley, Inc.	630 W 51st St. New York 19	NY
Permagile Corp. of America	34-43 56th St. Woodside	NY
Philadelphia Quartz Co.	1146X Public Ledger Bldg. Phila. 6	Pa
Preco Chemical Corp.	589 Main St. Westbury	NY
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
Randolph Co.	1018 Rosine St. Houston 19	Tex
Reichold Chemicals, Inc.	525 N Broadway, White Plains	NY
Rubber & Asbestos Corp.	225 Belleville Ave. Bloomfield	NJ
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Sauereisen Cements Co.	1045 N Canal St. Pittsburgh 15	Pa
Trionics Corp.	Box 548, Madison 1	Wis
U B S Chemical Co.	491 Main St. Cambridge 42	Mass

AGGREGATES—CONCRETE
See SHIELDING—RADIATION

AIR-CLEANING SYSTEMS
See Also AIR-CONDITIONING UNITS

American Air Filter Co.	215 Central Ave. Louisville 8	Ky
CAMBRIDGE FILTER CORP.		
Adv. Pgs. 50, 122	**726 E Erie Blvd. Syracuse 1**	**NY**
Carrier Corp.	Carrier Pkwy. Syracuse 1	NY
Controlled Atmosphere Enclosures Mfg Co	1061 E 8 St. Jacksonville	Fla
Gelman Instrument Co.	106 N Main St. Chelsea	Mich
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	**Erith, Kent, England**	
M S A Research Corp.	Callery	Pa
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	**196 Dean St. Brooklyn 31**	**NY**
Torit Mfg. Co.	1133 Raskin St. St. Paul	Minn

AIR COMPRESSORS
See COMPRESSORS—AIR AND GAS

AIR-CONDITIONING UNITS
See Also FANS & BLOWERS

A. E. I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Air & Refrigeration Corp.	439 Madison Ave. New York 17	NY
Airflow Co.	400 S Stonestreet Ave. Rockville	Md
American-Standard Industrial Div.	Detroit 32	Mich
American-Standard Prod. (Can) Ltd.	1201 Dupont St. Toronto 4, Ont Can	
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Carrier Corp.	Carrier Pkwy. Syracuse 1	NY
Clarage Fan Co.	1 Clarage Pl. Kalamazoo	Mich
Ellis & Watts Prods. Inc.	Monroe at Spencer, Cincinnati 36	Ohio
Fluor Corp. Ltd.	12000 E Washington Blvd. Whittier	Cal
Fluor Products Co.	Box 1267, Santa Rosa	Cal
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276H	**Erlangen-Bruck, Germany**	
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
Heat-X, Inc.	Brewster	NY
Krantz Lufttechnik, H.	Aachen-Richterich, Germany	
Midland Heating & Ventilation Co. Ltd.	Bedford Rd. Birmingham 11, England	
Moffat Engineering Co. Ltd.	77 S Audley St. London W1, England	
Northern Research & Engrg. Corp.	238 Main St. Cambridge	Mass
Siemens-Reinigar-Werke AG.	Luipoldstr. 45, Erlangen, Germany	
Surface Combustion Div. Midland-Ross Corp.	2375 Dorr St. Toledo 1	Ohio
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
Trane Co.	LaCrosse	Wis
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Vokes Ltd.	Guildford, Surrey, Eng.	
Westinghouse Elec Corp. Sturtevant Div.	Boston 36	Mass
WORTHINGTON CORP. Adv. Pgs. 22, 23	**401 Worthington Ave. Harrison**	**NJ**
Young Radiator Co.	709 S Marquette St. Racine	Wis

AIR-FILTER CHANGERS

American Air Filter Co.	215 Central Ave. Louisville 8	Ky

CAMBRIDGE FILTER CORP.		
Adv. Pgs. 30, 122	726 E Erie Blvd. Syracuse 1	NY
Continental Air Filters, Inc.	Box 1647, Louisville 1	Ky
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Uranium Instruments Co.	Box 1191, Grand Junction	Colo

AIR FILTERS
See FILTERS—AIR

AIR LOCKS
See DOORS—AIRTIGHT ACCESS

AIR-MONITORS—RADIOACTIVITY
See Under MONITORS

AIR SAMPLING
See SERVICES: SAMPLING, AIR & WATER

ALARMS AND ANNUNCIATORS
1. *FLOW*
2. *PRESSURE*
3. *RADIATION*
4. *TEMPERATURE*

AB Scienta, 1-3-4	Kvillegatan 9B, Box 386, Goeteborg	Swed
AEG, 1-2-3-4, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV. 1-2-3-4, Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
ALLIED RESEARCH ASSOCIATES, INC. 3, Adv Pg 107	43 Leon St. Boston 15	Mass
ANTON ELECTRONIC LABS. INC. 3, Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
Assembly Products, Inc. 3-4	75 Wilson Mills Rd. Chesterland	Ohio
Atomasters-Buntaine Corp. 3	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC.3, Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Atomics International Div. NAA, 2	Box 309, Canoga Park	Cal
Autocall Co. 1-2-4	Shelby	Ohio
Autocon Ind. Inc. Div. Automatic Control Co. 1-2-3-4	995 University Ave. St. Paul 4E	Minn
Avien, Inc. 1-2-4	58-15 Northern Blvd. Woodside 77	NY
Bailey Meter Co. 1-2-4	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meters & Controls Ltd. 1-2-4	Purley Way, Croydon, Surrey, England	
Barber-Colman Co. Wheelco Instruments Div. 1-2-3-4	1300 Rock St. Rockford	Ill
Barton Instrument Corp. 1	580 Monterey Pass Rd. Monterey Park	Cal
Bell Telephone Mfg Co. Nuc Energy Dv. 1-2-3-4	Berkenrodelei 75, Antwerp, Belgium	
BRISTOL CO. 1-3-4, Adv Pg 110	Box 1790 NBG, Waterbury 20	Conn
Brooks Instrument Co. Inc.	407 W Vine St. Hatfield	Pa
Burling Instrument Co. Inc. 4	16 River Rd. Chatham	NJ
Cambridge Instrument Co. Ltd. 2-4	13 Grosvenor Pl. London SW1, Eng	
Chance Vought Electronics Div. 1-2-3-4	Box 5907, Dallas 22	Tex
Computer Equipment Corp. 3	1931 Pontius Ave. L A 25	Cal
Consolidated Controls Corp. 2	14 Durant Ave. Bethel	Conn
CONTROLS FOR RADIATION, INC. 3, Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Crouse-Hinds Co. of Canada Ltd. 1-4	1160 Birchmount Rd. Scarborough, Toronto, Ontario, Canada	
CURTISS-WRIGHT CORP. PRINCETON DIV. 3-4, Adv Pg 211	Box 110, Princeton	NJ
Daystrom Inc. Control Systems Div. 1-4	4455 Miramar Rd. LaJolla	Cal
Eberline Instrument Corp. 3	Box 279, Santa Fe	NM
EDGERTON, GERMESHAUSEN & GRIER, INC. 3, Adv Pg 251	160 Brookline Ave. Boston 15	Mass
Edison Ind., Thomas A., Instr. Div. McGraw-Edison Co. 2-4	40 Lakeside Ave. West Orange	NJ
Electric Autolite Co. 4	Toledo 1	Ohio
Electroflo Meters Co. Ltd. 1-2-4	Abbey Rd. Park Royal, NW 10, London	Eng
Adv Pg 260	4616 Yonge St. Willowdale, Ont. Can	
ELECTRONIC ASSOCIATES, LTD. 3,		
Energy Control Co., Inc. 1-2-4	5 Beekman St. New York 38	NY
English Electric Co. Ltd. 1-2-4	Eng. Elec. Hse. Strand, London WC2	Eng
Ericsson Telephones Ltd. 1-2-3-4	High Church St. New Basford, Nott. Eng	
Fenwal Inc. 4	Pleasant St. Ashland	Mass
Fielden Electronics Ltd. 4	Paton Rd. Wythenshawe, Man 22, Eng	
Fisher & Porter Co. 1-2-4	50 Warminster Rd. Warminster	Pa
Foster Instrument Co. Ltd. 4	Letchworth, Herts, England	
Gelman Instrument Co. 3	106 N Main St. Chelsea	Mich
Gilardoni S.p.A. 3	Via Statale, Mandello Lario, Como	Italy
Glenco Corp. 1	212 Durham Ave. Metuchen	NJ
Grinnell Co. 2	260 W Exchange St. Providence 1	RI
HAGAN CHEMICALS & CONTROLS, INC. 4, Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Hastings-Raydist, Inc. 1-2	Newcomb Ave. Hampton	Va
Hays Mfg. Co. 1	814 W 12th St. Erie	Pa
Hill & Co., E. Vernon, 2-4	Box 189, Lake Geneva	Wis
Honeywell Controls, Ltd. 1-2-4	Vanderhoof Ave. Toronto, Ont Canada	
Illinois Testing Labs, Inc. 4	420 N La Salle St. Chicago	Ill
Integra, Leeds & Northrup Ltd. 4	Broad St. Birmingham 18, England	
Intl. Engrg. Concessionaires Ltd.	39 Parliament St. Westminster, London SW1, England	
International Research Associates, 4	5348 W North Ave. Chicago 39	Ill
Interstate Electronics Corp. 3	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. 3-4, Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
ISOTOPE DEVELOPMENTS LTD. 3, Adv Pg 239	Bath Rd. Reading, Berks, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, 3, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B. 3, Adv Pg 255	Box 415 Mountain Lakes	NJ
Jordan Electronics, 3	Alhambra	Cal
Kahl Scientific Instrument Corp. 3-4	Box 1166 El Cajon	Cal
Kahlenberg Bros. Co.	12th & Monroe Sts. Two Rivers	Wis
Kobe Kogyo Corp. 3	1-5 Wadayama-Dori, Kobe, Japan	
Labgear Ltd. Nucleonics Div. 3	Cromwell Rd. Cambridge, England	
Land Air Inc. 3	7444 W Wilson Ave. Chicago 31	Ill
Leeds & Northrup Co. 4	4926 Stenton Ave. Phila 44	Pa
Lock & Co. Ltd., A. M. 4	Union St. Oldham, Lanc. England	
LOCKHEED NUCLEAR PRODUCTS, 3, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Lundell & Co. 1-2-3-4	7356 S Woodlawn Ave. Chicago 19	Ill
M.B.L.E. 3, Adv. Pgs. 239, 276V	80 Rue des Deux Gares, Brussels 7, Belg	
MAGNETROL, INC. 1, Adv Pg 72	2115 S Marshall Blvd. Chicago 23	Ill
MEILLON, INC., GEORGE T. 3, Adv Pg 252	132 Nassau St. New York 38	NY
Menlo Research Laboratory, 3	1627 Bay Rd. East Palo Alto	Cal
Metrix Instruments Ltd. 4	54 Victoria Rd. Surbiton, Surrey, Eng	
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP 1-2-3-4, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Mullard Equipment Ltd. 3	Torrington Pl. London WC1, England	0176
Nash & Thompson Ltd. 1	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Nihon-Musen, K. K. 3	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. 3, Adv Pg 116	2 Richwood Pl. Denville	NJ
NUCLEAR-ELECTRONICS CORP. 3, Adv Pg 6	2925 N Broad St. Philadelphia 32	Pa
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC) 3, Adv Pg 15	Apollo	Pa
NUCLEAR MEASUREMENTS CORP. 3, Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
Nuclear Research Applications Ltd. 3	Bell St. Reigate, Surrey, England	
NUCLEONIC CORP. OF AMERICA, 3, Adv Pg 232	196 Dagrow St. Brooklyn 31	NY
Orenda Engines Ltd. 1	Box 4015, Term A, Toronto, Canada	
Panellit Div. ISI Inc. 1-2-3-4	7401 N Hamlin Ave. Skokie	Ill
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 3, Adv Pg 267	Eindhoven, The Netherlands	
Plessey Nucleonics Ltd. 3	Weedon Rd. Northampton, England	
Poetschke & Co. oHG 3	Box 2766, Frankfurt/Main 1, Germany	
Potter Aeronautical Corp. 1	Route #22, Union	NJ
Pyrometer Instrument Co. Inc. 4	92 Portland Ave. Bergenfield	NJ
RADIATION COUNTER LABS. INC. 3, Adv Pg 39	5122 W Grove St. Skokie	Ill
Radiation Recording Instruments, 3	Box 1056, Sta. B, Montreal 2, Que Can	
Radionics Inc. 3	Lafayette & Water Sts. Norristown	Pa
Robertshaw-Fulton Controls Co. Fulton Sylphon Div. 2-4	Box 400, Knoxville 1	Tenn
Robinson & Co. Ltd., D. 1-2-4	717 London Rd. Hounslow, Middlsx. Eng	
Rousseau Controls Ltd. 1-2-4	640 Decourcelle St. Montreal, Que. Can.	
Scam Instrument Corp. 1-2-3-4	1811 W Irving Park Rd. Chicago	Ill
Schutte & Koerting Co. 1	Cornwell Heights, Bucks County	Pa
SHARP LABORATORIES, INC. 3, Adv Pg 248	Box 1302, La Jolla	Cal
Simmonds Ltd., L. E. 3	Byron Rd. Harrow, Middlesex, England	
Solar Aircraft Co. 2-4	2200 Pacific Hwy. San Diego 12	Cal
SOLID STATE RADIATIONS, INC. 3, Adv Pg 44	9925 W Jefferson Blvd. Culver City	Cal
Standard Telephones & Cables Ltd. 1-2-4	63 Aldwych, London WC2, England	
Statham Instruments, Inc. 1-2	12401 W Olympic Blvd. LA 64	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp. 1-2-3-4	100 Carlson Rd. Rochester	NY
Swartwout Div.-Crane Co. 1-2-4	Hooksett Ind. Park, Manchester	NH
TECHNICAL ASSOCIATES, 3, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TERMINAL RADIO INTERNATIONAL LTD. 1-3, Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Thermo Electric Co. Inc. 4	Saddle Brook	NJ
Tigerman Engineering Co. 1-2-3-4	4332 N Western Ave. Chicago 18	Ill
TOKYO SHIBAURA ELECTRIC CO., LTD. 3, Adv Pg 276O	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TRACERLAB INC. 3, Adv. Pgs. 49, 136, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Uranium Instruments Co. 3	Box 1191, Grand Junction	Colo
VACUUM-ELECTRONIC CORP. 3, Adv Pg 260	Terminal Dr. Plainview	NY
VICTOREEN INSTRUMENT CO. 3, Adv. Pgs. 112,113	5800-11 Hough Ave. Cleveland 3	Ohio
Victory Engineering Corp. 4	Box 373, Union	NJ

Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Waukee Engineering Co. Inc. 1	5138 N 35th St, Milwaukee 9	Wis
West Instrument Corp. 4	4363 W Montrose Ave. Chicago 41	Ill
Zentralwerkstatt Gottingen GmbH, 3	Box 624, Gottingen, W Germany	

ALLOYS
See METALS, ALLOYS & COMPOUNDS

ALPHA COUNTERS
See CHAMBERS—IONIZATION, ALPHA, BETA & GAMMA COUNTERS—RADIATION

ALPHA-PARTICLE SOURCES
See SOURCES—RADIOACTIVE

AMMETERS
1. CONTACT
2. >1/2 AMP.
3. MICRO-MICRO
4. MILLI & MICRO

AEG, 1-2-3-4, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV. 2-3-4, Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Assembly Products, Inc. 1-4	75 Wilson Mills Rd. Chesterland	Ohio
Aveley Electric, Ltd, 1-2-4	S. Ockendon, Essex, England	
Bailey Meters & Controls Ltd. 3-4	Purley Way, Croydon, Surrey, England	
Beckman Instruments, Inc. Scientific & Process Instruments Div. 3	2500 Fullerton Rd. Fullerton	Cal
British Physical Labs. 3-4	Radlett, Herts, England	
Cambridge Instrument Co. Inc. 3	420 Lexington Ave. New York 17	NY
Cambridge Instrument Co., Ltd. 2-4	13 Grosvenor Pl. London SW1, Eng	
Columbia Electric Mfg. Co.	4519 Hamilton Ave. Cleveland 14	Ohio
Crosby-Teletronics Corp. 4	54 Kinkel St. Westbury	NY
CURTISS-WRIGHT CORP. PRINCETON DIV. 4, Adv Pg 211	Box 110, Princeton	NJ
Daystrom, Inc. Weston Instruments Div. 1-2-4	614 Frelinghuysen Ave. Newark 12	NJ
E-H Research Labs. Inc. 1-3-4	163 Adeline St. Oakland 20	Cal
ELCOR, INC. 2, Adv Pg 14	1225 W Broad St. Falls Church	Va
Electronic Instruments Ltd. 2-3	Lower Mortlake Rd. Richmond, Surrey	Eng
English Electric Co. Ltd. 2-4	Eng. Elec. Hse. Strand, London WC2	Eng
Epic, Inc. 2	150 Nassau St. New York 38	NY
Esterline-Angus Co. 4	Box 596, Indianapolis 6	Ind
GENERAL ELECTRIC CO. APPARATUS SLS. OPP. 1-2-3-4, Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Meters, Inc. 2-4	Box 1701, Grand Junction	Colo
General Radio Co. 3-4	West Concord	Mass
Gyra Electronics Corp. 3	Box 184 La Grange	Ill
Heath Co. 4	Benton Harbor	Mich
Helipot Div. Beckman Instruments Inc. Hewlett-Packard Co. 2-3-4	1501 Page Mill Rd. Palo Alto	Cal
Hickok Electrical Instrument Co. 1-2-3-4	10501 Dupont Ave. Cleveland 8	Ohio
International Instruments, Inc. 4	Box 2954, New Haven 15	Conn
KEITHLEY INSTRUMENTS, INC. 3-4, Adv Pg 234	12415 Euclid Ave. Cleveland 6	Ohio
Kin Tel Div. Cohu Electronics, Inc. 4	5725 Kearny Villa Rd. San Diego 12	Cal
LOCKHEED NUCLEAR PRODUCTS, 3, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Meters, Inc.	5353 N Keystone Av. Indnpls 20	Ind
Metrix Instruments Ltd. 2-3-4	54 Victoria Rd, Surbiton, Surrey, Eng	
Minn-Honeywell Reg Co. Con Dev Div. 3-4	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP 2-3-4, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Nash & Thompson Ltd. 3-4	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
NUCLEAR ENTERPRISES LTD. 4, Adv Pg 258	550 Berry St. Winnipeg 12, Manitoba	
Officine Galileo, 2-4	Via Carlo Bini 44, Florence, Italy	
Pace Electrical Instruments Co Inc 2-3-4	70-31 84th St. Glendale 27	NY
Phaostron Instrument & Electronic Co. 4	151 Pasadena Ave. South Pasadena	Cal
Physics Research Labs. Inc. 2-4	Box 555, Hempstead	NY
Precision Apparatus Co. Inc. 4	70-31 84th St. Glendale 27	NY
Pye & Co. Ltd., W. G. 4	York St. Cambridge, England	
Q. V. S., Inc. 2-3-4	20 N 15th St. E Orange	NJ
RADIO CORP. OF AMERICA, ELECTRON TUBE DIV. 4, Adv Pg 131	415 S 5th St. Harrison	NJ
RAWSON ELECTRICAL INSTRUMENT CO. 4, Adv Pg 254	114 Potter St. Cambridge 42	Mass
Shurite Meters, 2-4	130 Wallace St. New Haven 8	Conn
Siemens & Halske AG, 2-3-4	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Simpson Electric Co. Div. Amer Gage & Mach Co. 1-2-3-4	5208 W Kinzie St. Chicago 44	Ill
Smith-Florence, Inc. 2-4	4228 23 Ave. W. Seattle	Wash
Sterling Mfg. Co. 4	2880 Detroit Ave. Cleveland 13	Ohio
Sticht Co, Inc., Herman H. 3	27 Park Pl. New York 7	NY
Stromberg-Carlson Div. Gen. Dynamics Corp. 3-4	100 Carlson Rd. Rochester	NY
Technique Associates Div. Duncan Electric Co. 1	1413 Cornell Ave. Indianapolis	Ind
Texas Instruments Incorporated, 4	6000 Lemmon Ave. Dallas 9	Tex
Texas Instruments Incorporated, Geosciences & Instrumentation Div. 4	3609 Buffalo Speedway, Houston 6	Tex
Triplett Electrical Instrument Co. 4	286 Harmon Rd. Bluffton	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Waters Manufacturing, Inc. 1	Boston Post Rd. Wayland	Mass
WELCH MFG. CO., W.M. 4, Adv Pg 214	1515 Sedgwick St. Chicago 10	Ill
Westinghouse Elec Corp. Instrument Dept, 1-2-4	Newark	NJ

AMPLIFIERS
1. A-C
2. D-C
3. LINEAR
4. LOGARITHMIC
5. MAGNETIC
6. SERVO
7. WIDE-BAND

ACF Industries, Inc. 1-2-3-5-6	750 3rd Ave. New York 17	NY
AEG, 1-2-3-4-5-6, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A. E. I. Ltd. 5-6-7	33 Grosvenor Pl. London SW1, Eng	
Advanced Instruments, Inc. 2	45N Kenneth St. Newton Highlands 61	Mass
A.E.I. LTD. INSTRUMENTATION DIV. 2-4, Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Ad-Yu Electronics Lab. Inc. 1	249 Terhune Ave. Passaic	NJ
Aerotec Industries, Inc. Industrial Div. 6	2 Meadow St. South Norwalk	Conn
Airborne Accessories Corp. 1-2-5	1414 Chestnut Ave. Hillside 5	NJ
Airmec, Ltd. 2	High Wycombe, Bucks. England	
Airpax Electronics Inc. 2-3-5-6	Box 8488, Fort Lauderdale	Fla
Alden Electronic & Impulse Recording Equip. Co. 1-2	Westboro	Mass
Allegany Instrument Co. Inc. 2-3	1091 Wills Mountain, Cumberland	Md
ALLIS-CHALMERS MFG. CO. 1-2-5, Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
American Electronic Labs. Inc. 7	121 N 7th St. Philadelphia 6	Pa
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD. 3, Adv Pg 240	34-01 30th St. LIC 6	NY
Ansco Div. Gen. Anil. & Film Corp. 6	175 Clinton St. Binghamton	NY
Applied Dynamics Inc. Sub. Bowmar Instrument Corp. 1-2-6	Ann Arbor	Mich
Arenberg Ultrasonic Lab. Inc. 7	94 Green St. Jamaica Plain 30	Mass
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 1-2-3-4-5-6, Adv Pg 276AA	Charleroi, Belgium	
Atlantic Pyrometers, Inc. 2	190 Warburton Ave. Hawthorne	NJ
Atomasters-Buntaine Corp. 3	111 W Jewel Ave. St. Louis 22	Mo
Automatic Timing & Controls, Inc. 6	King of Prussia	Pa
Aveley Electric, Ltd. 1-2-3-4-5-7	S. Ockendon, Essex, England	
Avien, Inc. 1-2-6	58-15 Northern Blvd. Woodside 77	NY
Bailey Meters & Controls Ltd. 2	Purley Way, Croydon, Surrey, England	
BAIRD-ATOMIC, INC. 3-4, Adv Pg 65	33 University Rd. Cambridge 38	Mass
Beckman Instruments, Inc. Systems Div. 2-7	325 N Muller Ave. Anaheim	Cal
Bell Telephone Mfg Co. Nuc Energy Dr. 1-2-3-4-5-6-7	Berkenrodelei 75, Antwerp, Belgium	
Belock Instrument Corp.	112-03 14th Ave. College Point 56	NY
Bendix Corp. 1-2-4-5-6	1128 Fisher Bldg. Detroit 2	Mich
Bethlehem Steel Corp. 2-5-6	701 E 3rd St. Bethlehem	Pa
Beva Laboratory, Inc. 3	185 4th Ave. Trenton 8	NJ
Borg-Warner Controls Div. Borg-Warner Corp. 7	3300 Newport Blvd. Santa Ana	Cal
Bowmar Instrument Corp. 2-6	8000 Bluffton Rd. Fort Wayne	Ind
British Physical Labs. 7	Radlett, Herts, England	
Brown & Associates, Inc., W. A. 1-2	Box 286, Indian River City	Fla
Bruel & Kjaer, 3-7	Linde Alle 23, Naerum, Den	
Brush Instruments Div. Clevite Corp. 2	37th & Perkins, Cleveland 14	Ohio
Bulova Research & Development Labs Inc 6	62-10 Woodside Ave. Woodside 77	NY
Burr-Brown Res. Corp. 1-2-3-6-7	Box 6444, Tucson	Ariz
Caratom, 1-2-3-4-7	17 Bd. de la Liberation, St. Denis, Seine	Fr
Cawkell Research & Electronics Ltd. 2-7	Scotts Rd. Southall, Middlsx. Eng	
Central Transformer Co. 5	900 W Jackson Blvd. Chicago 7	Ill
Chance Vought Electronics Div. 6	Box 5907, Dallas 22	Tex
Chesapeake Instrument Corp. 1	Shadyside	Md
Colorado Research Corp. 1-2-5-7	Broomfield	Colo
Communication Accessories Co. 5	Lee's Summit	Mo
Computer Equipment Corp. 1-2-7	1931 Pontius Ave. L A 25	Cal
Computer Systems Inc. 1-2-6	Culver Rd. Monmouth Junction	NJ
Consolidated Electrodynamics Corp 1-2-3	360 Sierra Madre Villa, Pasadena	Cal
Control A Div. of Magnetics, Inc. 5	Box 391, Butler	Pa
Copes-Vulcan Div. Blaw-Knox Co. 1-2-3-5-6	939 W 26 St. Erie 4	Pa
Cosmic Radiation Labs., Inc. 3	1645 Montauk Hwy. Bellport	NY
Cossor Instruments Ltd. 2	Highbury Gr. London N5, England	
Crescent Engrg. & Research Co. 1	5440 N Peck Rd. El Monte	Cal

CURTISS-WRIGHT CORP. PRINCETON DIV. 2,		
Adv Pg 211	**Box 110, Princeton**	**NJ**
Dalmo Victor Co. Div. Textron Inc. 1-2-3-4-5-6-7	1515 Industrial Way, Belmont	Cal
Data-Master Corp. Sub. The Bristol Co. 6	85 Hazel St. Glen Cove	NY
Deltron, Inc. 5	4th & Cambria Sts. Philadelphia 33	Pa
Designers for Industry, Inc. 1-2-7	4241 Fulton Pkwy. Cleveland 9	Ohio
Detroit Controls Div. Amer. Rad. & Stand. San. Corp. 5	5900 Trumbull, Detroit 8	Mich
DIAMOND POWER SPECIALTY CORP. 7,		
Adv Pg 132	**Box 415 Lancaster**	**Ohio**
Dian Laboratories, Inc. 2-6	611 Broadway, New York 12	NY
Djeco Div. Djordjevic Engrg. Co. 2-3-4-5	1933 N Damen, Chicago 47	Ill
Dynatron Radio Ltd. 3	St. Peter's Rd. Furze Platt, Maidenhead, Berks, Eng	
E-H Research Labs. Inc. 2	163 Adeline St. Oakland 20	Cal
E. M. I. ELECTRONICS LTD. 1-2-7,		
Adv Pg 96	**Hayes, Middlesex, England**	
Eastern Industries, Inc. 6	100 Skiff St. Hamden	Conn
Edison Ind., Thomas A., Instr. Div. McGraw-Edison Co. 6	40 Lakeside Ave. West Orange	NJ
Ekco Electronics Ltd. Ekco Wks. 1-2-3-4	Southend-on-Sea, Essex, England	
ELCOR, INC. 2-7, Adv Pg 14	**1225 W Broad St. Falls Church**	**Va**
ELDORADO ELECTRONICS CO. 3,		
Adv Pg 223	**2821 10th St. Berkeley 10**	**Cal**
Electromechanical Products, 1-2-3-4-7	Markham Rd. Agincourt, Ont. Can.	
ELECTRONIC ASSOCIATES, INC. 2-6,		
Adv Pg 55	**Long Branch**	**NJ**
Electronic Communications Inc. 1-2-3-4	1501 72nd St. N, St. Petersburg	Fla
Electronic Instruments Ltd. 2-4	Lower Mortlake Rd. Richmond, Surrey	Eng
Electronic Systems Development Corp. 1-2-3	1484 E Main St. Ventura	Cal
Electronic Tube Corp. 1-2	1200 E Mermaid Ln. Phila. 18	Pa
Emerson Radio & Phonograph Corp. Govt. Electronics Div. 5	1140 East-West Hwy. Silver Spring	Md
Engineered Electronics Co. 1-3	1441 E Chestnut Ave. Santa Ana	Cal
English Electric Co. Ltd. 5	Eng. Elec. Hse. Strand, London WC2	Eng
Epsco, Inc. 1-2-7	275 Massachusetts Ave. Cambridge 39	Mass
Ericsson Telephones Ltd. 2-3-4-7	High Church St. New Basford, Nott. Eng	
Farnell Instruments Ltd Light Ind Est 1-2	York Rd. Wetherby, England	
Feedback, Ltd. 2-6	1 The Broadway, Crowborough, Sussex, Eng	
Ferranti-Packard Electric Ltd. 3-4	Industry St. Toronto 15, Ontario, Canada	
Fielden Electronics Ltd. 2	Paston Rd. Wythenshawe, Man 22, Eng	
Fleming Radio (Developments) Ltd. 4-7	Caxton Way, Stevenage, Herts, England	
Ford Instrument Co Div Sperry Rand Corp. 2-5-6	31-10 Thomson Ave. LIC 1	NY
FRANKLIN ELECTRONICS, INC. 2,		
Adv Pg 263	**4th St. Bridgeport**	**Pa**
Franklin Systems, Inc. 1-2-3-4-5-6-7	2734 Hillsboro Rd. W Palm Beach	Fla
Freed Transformer Co., Inc. 5-6	1718 Weirfield St. Brooklyn 27	NY
FRIESEKE & HOEPFNER GmbH, 3,		
Adv Pg 276N	**Erlangen-Bruck, Germany**	
GAAA, 1-2-3-4-5-6	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Garrett Corp. 1-2-5-6	9851 Supulveda Blvd. L A 45	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 2-4,		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
General Magnetics, Inc. 5	135 Bloomfield Ave. Bloomfield	NJ
General Radio Co. 1-2-7	West Concord	Mass
Gilardoni S.p.A. 3	Via Statale, Mandello Lario, Como	Italy
Glenco Corp. 1-2-5	212 Durham Ave. Metuchen	NJ
Graflex, Inc. 6	3750 Monroe Ave. Rochester 3	NY
Gyra Electronics Corp. 2	Box 184 La Grange	Ill
HRB-Singer, Inc. 4-7	Circleville Rd. State College	Pa
HAGAN CHEMICALS & CONTROLS, INC. 2-3-4-5-6,		
Adv. Pgs. 120, 121	**Box 1346, Pittsburgh 30**	**Pa**
Hallamore Electronics Div. 2-7	714 Brookhurst, Anaheim	Cal
HAMNER ELECTRONICS CO. 3-7,		
Adv. Pg. 2nd Cover	**Box 531, Princeton**	**NJ**
Hays Corp. 6	Michigan City 40	Ind
Heath Co. 2	Benton Harbor	Mich
Helland Div. Minneapolis-Honeywell Reg Co. 3	5200 E Evans Ave. Denver 22	Colo
Hewlett-Packard Co. 1-3-7	1501 Page Mill Rd. Palo Alto	Cal
Hilger & Watts, Ltd. 2	98 St. Pancras Way, London NW 1, Eng	
Honeywell Controls, Ltd. 2-3-5-6-7	Vanderhoof Ave. Toronto, Ont Canada	
Houston Instrument Corp. 2	Box 22234, Houston 27	Tex
Hydel, Inc. 2-6-7	223 Crescent St. Waltham 54	Mass
Instruments for Industry, Inc. 3-4-7	99 New South Rd. Hicksville	NY
Integra, Leeds & Northrup Ltd. 6	Broad St. Birmingham 15, England	
International Research Associates, 1-2-5	5438 W North Ave. Chicago 39	Ill
Interstate Electronics Corp. 2-3	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. 2-3-4,		
Adv Pg 276S	**81 rue Escudier, Boulogne-Billancourt, Seine, France**	
ISOTOPE DEVELOPMENTS LTD. 3-7,		
Adv Pg 239	**Bath Rd. Reading, Berks, England**	
JOHNSON & ASSOC. INC., WILLIAM B. 3,		
Adv Pg 255	**Box 415 Mountain Lakes**	**NJ**
JOHNSTON LABS. INC., WILLIAM H. 3,		
Adv Pg 90	**3617 Woodland Ave. Baltimore 15**	**Md**
Jordan Controls Inc. 6	3235 W Hampton Ave. Milwaukee 9	Wis
Jordan Electronics, 2-6	Alhambra	Cal
Kahl Scientific Instrument Corp. 3	Box 1166 El Cajon	Cal
KAMAN NUCLEAR, 6, Adv Pg 258	**Box 3217, No. End Sta. Colorado Springs**	**Colo**
KEARFOTT DIV. GEN. PRECISION, INC. 1-5-6,		
Adv Pg 269	**1150 McBride Ave. Little Falls**	**NJ**
KEITHLEY INSTRUMENTS, INC. 1-2-3-4,		
Adv Pg 234	**12415 Euclid Ave. Cleveland 6**	**Ohio**
Keystone Products Co. 1-5	904-6 23rd St. Union City	NJ
Kin Tel Div. Cohu Electronics Ind. 1-2-3	5725 Kearny Villa Rd. San Diego 12	Cal
Kobe Kogyo Corp. 1-3-4	1-5 Wadayama-Dori, Kobe, Japan	
KOLLMORGEN CORP. 6, Adv. Pgs. 10, 11	**347 King St. Northampton**	**Mass**
Laben, 2	Via Amadeo 41, Milano, Italy	
Labgear Ltd. Nucleonics Div. 3-4	Cromwell Rd. Cambridge, England	
Lab. Prof. Dr. Berthold, 3	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
Land Air Inc. 1-2-6	7444 W Wilson Ave. Chicago 31	Ill
LANDIS & GYR, INC. 5, Adv Pg 253	**45 W 45 St. New York 36**	**NY**
LEACH CORP. 1-2-3-4-5-6-7,		
Adv Pg 253	**18435 Susana Rd. Compton**	**Cal**
Leeds & Northrup Co. 2-3-5-6	4936 Stenton Ave. Phila 44	Pa
Lel, Inc. 4-7	Akron St. Copiague	NY
L'Electronique Appliquee, 1-2-3	25 rue du Docteur Finlay, Paris 15, Fr	
Librascope Div. Gen Precision, Inc. 5-6	Glendale 1	Cal
Link Div. - Gen. Precision, Inc. 1-2-6	Binghamton	NY
Litton Industries, 1-2-7	336 N Foothill Rd. Beverly Hills	Cal
Lockheed Aircraft Corp. 1-2-4-5-6	Box 551 Burbank	Cal
LOCKHEED NUCLEAR PRODUCTS, 3-7,		
Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
Magnetic Amplifiers Div. Ziegler Corp. 5-6	632 Tinton Ave. New York 55	NY
Magnetic Instruments Co. Inc. 1-3	637 Commerce St. Thornwood	NY
Magnetic Research Corp. 1-2-5-6-7	3160 W El Segundo Blvd. Hawthorne	Cal
Magnetics, Inc. 5	Box 391, Butler	Pa
Marconi's Wireless Telegraph Co., Ltd. 3-7	Chelmsford, Essex, England	
Maxson Corp., W L, Instruments Div. 3-4	475 10th Ave. New York 18	NY
Midwestern Instruments, 1-2-3-4-5-6-7	41st & Sheridan Rd. Box 7509, Tulsa 18	Okla
Miles Electronics Ltd. 1-2-3-4-6	Shoreham Arpt. Shoreham, Sussex, Eng	
Miles Hivolt Ltd. 2-3-4-6	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co, Boston Div. 2-5-7	40 Life St. Boston 35	Mass
Minn-Honeywell Reg Co. Con Dev Div. 1-2-3-4-5-6-7	2753 4th Ave. S, Mnpls 8	Minn
MINN.-HONEYWELL REG. CO. INDL. PRODS. GROUP 1-2-3-4-5-6-7,		
Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group, 1-2-5-6	2600 Ridgway Rd. Minneapolis 13	Minn
Model Engineering & Mfg. Inc. 1-2-6	50 Frederick St. Huntington	Ind
Moseley Co., F. L. 4	409 N Fair Oaks Ave. Pasadena	Cal
Muirhead Instruments Inc. 6	441 Lexington Ave. New York 17	NY
Nash & Harrison Ltd. 1-2-3	1355 Wellington St. Ottawa, Canada	
Navigation Computer Corp. 2	1621 Snyder Ave. Philadelphia 45	Pa
New Electronic Products Ltd. 1	360 Kennington Rd. London, SE11, Eng	
New London Instrument Co. 7	Box 189 New London	Conn
Newman Industries Ltd. 1-2-6	Yate, Bristol, England	
Nihon-Musen, K. K. 1-3-4	930 Kamirenjaku, Mitaka, Tokyo, Jap	
Norair, Div. Northrop Corp. 5-7	1001 E Broadway, Hawthorne	Cal
NUCLEAR-ELECTRONICS CORP. 1-2-3,		
Adv Pg 6	**2925 N Broad St. Philadelphia 32**	**Pa**
Nuclear Enterprises (GB) Ltd. 3	Bankhead Medway, Edinburgh 11, Scot	
NUCLEAR ENTERPRISES LTD. 3,		
Adv Pg 238	**550 Berry St. Winnipeg 12, Manitoba**	
Nuclear Research Applications Ltd. 3	Bell St. Reigate, Surrey, England	
NUCLEONIC CORP. OF AMERICA, 3,		
Adv Pg 232	**196 Dogpaw St. Brooklyn 31**	**NY**
Offner Electronics Inc. 1-2-3-4	3938 River Rd. Schiller Park	Ill
Ohmart Corp. 1-2	2236 Bogen St. Cincinnati 14	Ohio
Oilgear Co. 6	1560 W Pierce St. Milwaukee	Wis
Ortho Filter Corp. 5	7 Paterson St. Paterson 1	NJ
Oster Mfg. Co., John, Avionic Div. 1-2-3-5-6	1 Main St. Racine	Wis
Ovitron Corp. 6	37-06 48 Ave. Long Island City	NY
PCA Electronics Inc. 5	16799 Schoenborn St. Sepulveda	Cal
Panax Equipment, Ltd. 1-3	Holmethorpe Ind. Est. Redhill, Surr, Eng	
Paraplegics Mfg. Co. Inc. 1-2-5-6	304 York Rd. Bensenville	Ill
Patterson Moos Research Div. Lessona Corp. 1-2	90-28 Van Wyck Expwy. Jamaica 18	NY
Peebles & Co Ltd. Bruce, Electronics Div. 2-5-6	E Pilton, Edinburgh 5, Scotland	
Philbrick Researches, Inc., G. A. 2-3	127 Clarendon St. Boston 16	Mass
Philco Corp. 1-2-7	4700 Wissahickon Ave. Phila 44	Pa
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 3,		
Adv Pg 267	**Eindhoven, The Netherlands**	
Photocon Research Products, 2	421 N Altadena Dr. Pasadena	Cal
Photron Instrument Co. 1-2-7	6516 Detroit Ave. Cleveland 2	Ohio
Picker & Harting Vertrieb GMBH, 3-4	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. 3, Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Plessey Nucleonics Ltd. 2-3-4	Weedon Rd. Northampton, England	
Poetschke & Co. oHG 3-4	Box 2766, Frankfurt/Main 1, Germany	

Polyphase Instrument Co. 5	E 4th St. Bridgeport	Pa
Pye & Co. Ltd., W. G. 2	York St. Cambridge, England	
RS Electronics Corp. 3-4-7	435 Portage Ave. Palo Alto	Cal
RADIATION COUNTER LABS. INC. 3,		
Adv Pg 39	**5122 W Grove St. Skokie**	**Ill**
Radiation Electronics Co. Div. Comptometer Corp. 1-2	5600 Jarvis Ave. Chicago 48	Ill
RADIATION INSTRUMENT CO. 1-7,		
Adv Pg 72	**Box 733, Silver Spring**	**Md**
RADIATION INSTRUMENT DEVELOPMENT LAB. 3,		
Adv. Pgs. 129, 276I	**61 E North Ave. Northlake**	**Ill**
Radio City Products Co. 1-2-3-4-7	Centre & Glendale Rds. Easton	Pa
Ramage & Miller, Inc. 7	3221 Florida Ave. Richmond	Cal
Rank Cintel Ltd. 2	Worsley Bridge Rd. London, SE 26, Eng	
Raytheon Co Commer Appar & Sys Div 5	1415 Boston-Prov. Tnpk. Norwood	Mass
Reeves Instrument Corp. 2-6	E Gate Blvd. Garden City	NY
Republic Flow Meter Co. 1-6	2260 Diversey Pkwy. Chicago 47	Ill
Rust Industrial Co. Inc., The, 1-2	130 Silver St. Manchester	NH
S. A. I. P. 2-3	38 Rue Gabriel Crie, Malakoff, Seine	Fr
Sanborn Co. 2-4-6	175 Wyman St. Waltham 54	Mass
Sangamo Electric Co. 1-6	11 & Converse Sts. Springfield	Ill
Scott, Inc., H. H. 1	111 Powder Mill Rd. Mayard	Mass
Servomechanisms Inc. 2-5-6	200 Aviation Blvd. El Segundo	Cal
Short Bros & Harland Ltd. 2-6	Queens Island, Belfast, Ireland	
Siemens & Halske AG, 3-4-5	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Siemens-Reiniger-Werke AG. 3	Luipoldstr. 45, Erlangen, Germany	
Sigma Instruments, Inc. 5	170 Pearl St. South Braintree 85	Mass
Smith-Florence, Inc. 2	4228 23 Ave. W. Seattle	Wash
Solartron Electronic Group Ltd 1-2-3-4-6	Victoria Rd. Farnborough, Hants, Eng	
SOLID STATE RADIATIONS, INC. 3,		
Adv Pg 44	**9925 W Jefferson Blvd. Culver City**	**Cal**
Special Instruments Lab. Inc. 6	312 W Vine Ave. Knoxville 02	Tenn
Spencer-Kennedy Labs. Inc. 3-7	1320 Soldiers Field Rd. Boston 35	Mass
Sperry Gyroscope Co. Div. Sperry Rand Corp. 6	Great Neck	NY
Standard Telephones & Cables Ltd. 5	63 Aldwych, London WC2, England	
Statham Instruments, Inc. 1-2-3	12401 W Olympic Blvd. LA 64	Cal
Stoelting Co., C. H. 2	424 N Homan Ave. Chicago 24	Ill
Stromberg-Carlson Div. Gen. Dynamics Corp. 1-2-3-4-6	100 Carlson Rd. Rochester	NY
Taylor Instrument Cos. 3	38 Ames St. Rochester 1	NY
TECHNICAL MEASUREMENT CORP. 3,		
Adv Pg 215	**441 Washington Ave. North Haven**	**Conn**
Technology Instrument Corp. 2-7	531 Main St. Acton	Mass
Tektronix, Inc. 7	Box 500, Beaverton	Ore
Temco Electronics Div. Temco Electronics & Missiles Co. 1-2-6	Box 6191, Dallas 22	Tex
Tennelec Instrument Co. 3	Box 964, Oak Ridge	Tenn
TERMINAL RADIO INTERNATIONAL LTD. 2-3-4,		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
Thermo Electric Co. Inc. 2-6	Saddle Brook	NJ
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, 1-2-3-4-5-6-7,		
Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Torwico Electronics, Inc. 5	1060 Morris Ave. Union	NJ
Trak Electronics Co. Div. CGS Labs. Inc. 3-4-7	Wilton	Conn
Transformer Electronics Co. 2	Boulder Ind. Park. Boulder	Colo
Transformers, Inc. 5	200 Stage Rd. Vestal	NY
Transonic, Inc. 1-2-5	808 16th St. Box 59, Bakersfield	Cal
Tresco, Inc. 5	3824 Terrace St. Philadelphia 28	Pa
Trio Laboratories, Inc. 1-2	Plainview	NY
Trott Electronics, Inc. 1-2-3-4-7	412 Smith St. Rochester 8	NY
United Control Systems, Inc. 1-2-6	918 Woodley Rd. Dayton 3	Ohio
Vari-L Co. Inc. 5	207 Greenwich Ave. Stamford	Conn
Varo Mfg. Co. Inc. 1-2-3-5-6-7	2201 Walnut St. Garland	Tex
Venner Electronics Ltd. 1	Kingston By-Pass, New Malden, Surrey, Eng	
Vickers, Inc. Electric Products Div. 1-2-3-4-5-6	1815 Locust St. St. Louis 3	Mo
VICTOREEN INSTRUMENT CO. 3-7,		
Adv. Pgs. 112, 113	**5800-11 Hough Ave. Cleveland 3**	**Ohio**
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walsh Associates, Charles, 3	Box 244, Deerfield	Ill
Waltham Electronics Corp. 7	751 Main St. Waltham	Mass
Wheeler Electronic Corp. 5	160 E Aurora St. Waterbury 20	Conn
Yuba Consolidated Industries Inc. 1-2-3-6	1 Bush St. San Francisco 4	Cal
Zentralwerkstatt Gottingen GmbH, 3	Box 624, Gottingen, W Germany	

ANALOG COMPUTERS
See COMPUTERS—ANALOG

ANALYSIS—ACTIVATION
See SERVICES: ACTIVATION ANALYSIS

ANALYSIS—SPECTROGRAPHIC
See SERVICES: SPECTROGRAPHIC ANALYSIS

ANALYSIS—URANIUM & RADIOISOTOPE
See SERVICES: ANALYSIS, ISOTOPIC
SERVICES: RADIOISOTOPE ANALYSIS

ANALYZERS—COINCIDENCE AND ANTICOINCIDENCE

ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	**Charleroi, Belgium**	
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	**5959 S Hoover, L A 44**	**Cal**
Atomium Corp.	940 Main St. Waltham	Mass
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Beva Laboratory, Inc.	185 4th Ave. Trenton 8	NJ
Cosmic Radiation Labs., Inc.	1645 Montauk Hwy. Bellport	NY
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Dynatron Radio Ltd.	St. Peter's Rd. Furze Platt, Maidenhead, Berks, Eng	
E-H Research Labs. Inc.	163 Adeline St. Oakland 20	Cal
Electronic Tube Corp.	1200 E Mermaid Ln. Phila. 18	Pa
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Franklin Systems, Inc.	2734 Hillsboro Rd. W Palm Beach	Fla
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276N	**Erlangen-Bruck, Germany**	
Guardian Electric Mfg. Co.	1550 W Carroll Ave. Chicago 7	Ill
HAMNER ELECTRONICS CO.		
Adv. Pg. 2nd Cover	**Box 531, Princeton**	**NJ**
Heath Co.	Benton Harbor	Mich
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. Adv Pg 276S	**81 rue Escudier, Boulogne-Billancourt, Seine, France**	
JOHNSTON LABS. INC., WILLIAM H.,		
Adv Pg 90	**3617 Woodland Ave. Baltimore 15**	**Md**
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Laben	Via Amadeo 41, Milano, Italy	
Labgear Ltd. Nucleonics Div.	Cromwell Rd. Cambridge, England	
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
M.B.L.E. Adv. Pgs. 299, 276V	**80 Rue des Deux Gares, Brussels 7, Belg**	
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Nuclear Research Applications Ltd.	Bell St. Reigate, Surrey, England	
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	**196 Dogrow St. Brooklyn 31**	**NY**
PACKARD INSTRUMENT CO. INC.		
Adv Pg 227	**Box 428, La Grange**	**Ill**
Panax Equipment, Ltd.	Holmethorpe Ind. Est. Redhill, Surr. Eng	
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	**Eindhoven, The Netherlands**	
Podbielniak Inc.	341 E Ohio St. Chicago 11	Ill
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	**61 E North Ave. Northlake**	**Ill**
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SELO	Via Monfalcone, 12, Milano, Italy	
SHARP LABORATORIES, INC.		
Adv Pg 248	**Box 1302, La Jolla**	**Cal**
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TECHNICAL ASSOCIATES, Adv Pg 41	**140 W Providencia Ave. Burbank**	**Cal**
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
TEXAS NUCLEAR CORP.		
Adv. Pgs. 228, 229	**Box 9267, Allendale Sta. Austin 17**	**Tex**
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd. Waltham 54**	**Mass**
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Zentralwerkstatt Gottingen GmbH	Box 624, Gottingen, W Germany	

ANALYZERS—DEUTERIUM

Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	

ANALYZERS—GAS

Advanced Instruments, Inc.	45N Kenneth St. Newton Highlands 61	Mass
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md

Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St. Rockford	Ill
Beckman Instruments, Inc. Scientific & Process Instruments Div.	2500 Fullerton Rd. Fullerton	Cal
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
Cambridge Instrument Co. Inc.	420 Lexington Ave. New York 17	NY
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1	Eng
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Consolidated Engines & Machy Co. Ltd.	5645 Pare St. Mt. Royal, Montreal	Can
Devco Engineering Inc. Control Systems Div.	Pier Lane W, Caldwell	NJ
Electronic Instruments Ltd.	Lower Mortlake Rd. Richmond, Surrey	Eng
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gelman Instrument Co.	106 N Main St. Chelsea	Mich
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Hays Corp.	Michigan City 40	Ind
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1	Eng
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont	Canada
Infra Red Development Co. Ltd.	40 Tewin Rd. Welwyn Garden City, Herts, England	
INSTRUMENTATION ASSOCIATES, Adv Pg 14	**17 W 60 St. New York 23**	**NY**
Kahl Scientific Instrument Co.	Box 1166 El Cajon	Cal
Laboratory Equipment Corp.	St. Joseph	Mich
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Mine Safety Appliances Co.	201 N Braddock Ave. Pittsburgh 8	Pa
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Model Engineering & Mfg. Inc.	50 Frederick St. Huntington	Ind
National Instrument Labs. Inc.	842 Evarts St. NE, Washington	DC
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Patterson Moos Research Div. Leesona Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Perkin-Elmer Corp. Instrument Div.	Main Ave. Norwalk	Conn
Pye & Co. Ltd., W. G.	York St. Cambridge, England	
Research Specialties Co.	200 S Garrard Blvd. Richmond	Cal
Scott (Electronic Engrg.) Ltd., James	68 Brockville St. Glasgow E2, Scotland	
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Water Associates	45 Franklin St. Framingham	Mass
Will Corp.	Box 1050, Rochester 3	NY

ANALYZERS—PULSE-HEIGHT, MULTICHANNEL

A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD. Adv Pg 240	**34-01 30th St. LIC 6**	**NY**
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	**Charleroi, Belgium**	
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomium Corp.	940 Main St. Waltham	Mass
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. Cincinnati Div.	3130 Wasson Rd. Cincnti 8	Ohio
Beva Laboratory, Inc.	185 4th Ave. Trenton 8	NJ
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd. Santa Ana	Cal
Computing Devices of Canada	Box 508, Ottawa, Ont	Can
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Dynatron Radio Ltd.	St. Peter's Rd. Furze Platt, Maidenhead, Berks, Eng	
Ekco Electronics Ltd. Ekco Wks.	Southend-on-Sea, Essex, England	
ELDORADO ELECTRONICS CO. Adv Pg 222	**2821 10th St. Berkeley 10**	**Cal**
Electromechanical Products	Markham Rd. Agincourt, Ont.	Can
Electronic Tube Corp.	1200 E Mermaid Ln. Phila. 18	Pa
FRANKLIN ELECTRONICS, INC. Adv Pg 263	**4th St. Bridgeport**	**Pa**
Franklin Systems, Inc.	2734 Hillsboro Rd. W Palm Beach	Fla
FRIESEKE & HOEPFNER GmbH, Adv Pg 276N	**Erlangen-Bruck, Germany**	
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
Gyra Electronics Corp.	Box 184 La Grange	Ill
HAMMER ELECTRONICS CO. Adv. Pg. 2nd Cover	**Box 531, Princeton**	**NJ**
Hickok Electrical Instrument Co.	10501 Dupont Ave. Cleveland 8	Ohio
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. Adv Pg 276S	**61 rue Escudier, Boulogne-Billancourt, Seine, France**	
ISOTOPE DEVELOPMENTS LTD. Adv Pg 239	**Bath Rd. Reading, Berks, England**	
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Laben	Via Amadeo 41, Milano, Italy	
Labgear Ltd. Nucleonics Div.	Cromwell Rd. Cambridge, England	
L'Electronique Appliquee	25 rue du Docteur Finaly, Paris 15, Fr	
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
M.B.L.E. Adv. Pgs. 259, 276V	**80 Rue des Deux Gares, Brussels 7, Belg**	
Marshall of Cambridge Electronics Ltd.	The Aerodrome, Cambridge, England	
MEILLON, INC., GEORGE T. Adv Pg 252	**132 Nassau St. New York 38**	**NY**
Miles-Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEAR DATA, INC. Adv Pg 237	**911 Regent St. Madison**	**Wis**
Nuclear Enterprises (GB) Ltd.	Bankhead Medway, Edinburgh 11, Scot	
NUCLEAR ENTERPRISES LTD. Adv Pg 258	**550 Berry St. Winnipeg 12, Manitoba**	
NUCLEAR MEASUREMENTS CORP. Adv Pg 66	**2460 N Arlington Ave. Indianapolis 18**	**Ind**
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	**196 Degraw St. Brooklyn 31**	**NY**
Pacific Electro-Nuclear Corp.	9520 Jefferson Blvd. Culver City	Cal
PACKARD INSTRUMENT CO. INC. Adv Pg 227	**Box 428, La Grange**	**Ill**
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Philips Electronic Instruments	750 S Fulton Ave. Mt. Vernon	NY
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
RADIATION COUNTER LABS. INC. Adv Pg 39	**5122 W Grove St. Skokie**	**Ill**
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 276I	**61 E North Ave. Northlake**	**Ill**
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SELO	Via Monfalcone, 12, Milano, Italy	
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
TECHNICAL MEASUREMENT CORP. Adv Pg 215	**441 Washington Ave. North Haven**	**Conn**
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd. Waltham 54**	**Mass**
VICTOREEN INSTRUMENT CO. Adv. Pgs. 112, 113	**5806-11 Hough Ave. Cleveland 3**	**Ohio**
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walsh Associates, Charles	Box 244, Deerfield	Ill
Zentralwerkstatt Gottingen GmbH	Box 634, Gottingen, W Germany	

ANALYZERS—SPECTROCHEMICAL

A.E.I. Ltd.	33 Grosvenor Pl. London SW1	Eng
Advanced Instruments, Inc.	45N Kenneth St. Newton Highlands 61	Mass
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Applied Research Labs. Inc.	Box 1710, Glendale 5	Cal
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Consolidated Engines & Machy Co. Ltd.	5645 Pare St. Mt. Royal, Montreal	Can
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1	Eng
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Perkin-Elmer Corp. Instrument Div.	Main Ave. Norwalk	Conn
Prazisionsmessgerate RSV	13b Hechendorf/Pilsensee, Germany	
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Water Associates	45 Franklin St. Framingham	Mass
Will Corp.	Box 1050, Rochester 3	NY

ANALYZERS—TIME-OF-FLIGHT

Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. Cincinnati Div.	3130 Wasson Rd. Cincnti 8	Ohio
Computer Equipment Corp.	1921 Pontius Ave. L A 25	Cal

Designers for Industry, Inc.	4241 Fulton Pkwy, Cleveland 9	Ohio
E. M. I. ELECTRONICS LTD. Adv Pg 96	**Hayes, Middlesex, England**	
ELDORADO ELECTRONICS CO.		
Adv Pg 223	**2821 10th St. Berkeley 10**	**Cal**
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. Adv Pg 276S	**81 rue Escudier, Boulogne-Billancourt, Seine, France**	
Laben	Via Amadeo 41, Milano, Italy	
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
RADIATION COUNTER LABS. INC.		
Adv Pg 39	**5122 W Grove St. Skokie**	**Ill**
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	**61 E North Ave. Northlake**	**Ill**
TECHNICAL MEASUREMENT CORP.		
Adv Pg 215	**441 Washington Ave. North Haven**	**Conn**
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
TEXAS NUCLEAR CORP.		
Adv. Pgs. 228, 229	**Box 9267, Allendale Sta. Austin 17**	**Tex**
VICTOREEN INSTRUMENT CO.		
Adv. Pgs. 112, 113	**5800-11 Hough Ave. Cleveland 3.**	**Ohio**
Walsh Associates, Charles	Box 244, Deerfield	Ill
Zentralwerkstatt Gottingen GmbH	Box 624, Gottingen, W Germany	

ANNUNCIATORS
See **ALARMS & ANNUNCIATORS**

ARCHITECT-ENGINEER SERVICES
See **SERVICES: ARCHITECT-ENGINEER**

AREA MONITORS—RADIOACTIVITY
See Under **MONITORS—RADIATION**

ARGON
See Under **GASES**

AUTOCLAVES

Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Hollow Boring Co.	1948 Raspberry St. Erie 4	Pa
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Autoclave Engineers, Inc.	2930 W 22 St. Erie	Pa
AVERY & SAUL CO. Adv Pg 8	**115 Rindge Ave. Cambridge**	**Mass**
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St. New York 17**	**NY**
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Fansteel Metallurgical Corp.	North Chicago	Ill
FOSTER WHEELER CORP. Adv Pg 7	**666 5th Ave. New York 19**	**NY**
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO.		
Adv Pg 106	**4809 Tod Ave. East Chicago**	**Ind**
KELLEY & CO., O. G. Adv Pg 30	**98 Taylor St. Boston 22**	**Mass**
Lasker Boiler & Engineering Corp.	3201 S Wolcott Ave. Chicago 8	Ill
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Morfax Ltd.	Willow Ln. Mitcham, Surrey, England	
NATIONAL ANNEALING BOX CO.		
Adv Pg 268	**Washington**	**Pa**
National Forge Co.	10 Front St. Irvine, Warren County	Pa
National Tank & Boiler Co.	7210 Polson Ln. St. Louis	Mo
Nooter Corp	1424 S 3rd St. St. Louis 66	Mo
Nuclear Metals, Inc.	Box 222 Concord	Mass
Patterson Foundry & Machine Co.	East Liverpool	Ohio
PHOENIX-RHEINROHR AG, Adv Pg 276K	**August-Thyssen-Str. 1, Dusseldorf, Ger**	
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Pulsomer Engineering Co. Ltd. Nine Elms Iron Wks.	Reading, England	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Schueler & Co.	75 Cliff St. New York 38	NY
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Steels Engrg. Installations Ltd.	Sunderland, Durham, England	
Teleweld Inc.	11535 Franklin St. Franklin Park	Ill
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Thompson, Ltd., John	Wolverhampton, England	
Will Corp.	Box 1050, Rochester 3	NY
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

AUXILIARY POWER
See **MOTOR-GENERATOR SETS**

BADGES—FILM
See **DOSIMETERS—RADIATION**

BALANCES—ANALYTICAL

Ainsworth & Sons, Inc., Wm.	2151 Lawrence St. Denver 5	Colo
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Beckman Instruments, Inc. Scientific & Process Instruments Div.	2500 Fullerton Rd. Fullerton	Cal
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Exact Weight Scale Co.	538 E Town St. Columbus 15	Ohio
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Mettler Instrument Corp.	Box 100, Princeton	NJ
Michrochemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	**Apollo**	**Pa**
Schueler & Co.	75 Cliff St. New York 38	NY
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
Stoelting Co., C. H.	424 N Homan Ave. Chicago 24	Ill
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Torsion Balance Co.	35 Monehgan St. Clifton	NJ
Voland & Sons, Inc.	27 Centre Ave. New Rochelle	NY
WELCH MFG. CO., W.M. Adv Pg 214	**1515 Sedgwick St. Chicago 10**	**Ill**
Will Corp.	Box 1050, Rochester 3	NY

BATHS—CONSTANT-TEMPERATURE

Advanced Instruments, Inc.	45N Kenneth St. Newton Highlands 61	Mass
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
ASSOCIATED TESTING LABS. INC.		
Adv Pg 268	**134 Rte. 46, Wayne**	**NJ**
BAR-RAY PRODUCTS, INC. Adv Pg 242	**209 25th St. Brooklyn 32**	**NY**
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. Cl 2, England	
Gordon Co., Claud S.	619 W 30 St. Chicago 16	Ill
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Instrument & Development Prods Co. Inc.	355 W 109th Pl. Chicago	Ill
JOHNSON & ASSOC. INC., WILLIAM B.,		
Adv Pg 255	**Box 415 Mountain Lakes**	**NJ**
Kahl Scientific Instrument Co.	Box 1166 El Cajon	Cal
Labline, Inc.	3070-82 W Grand Ave. Chicago 22	Ill
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Modern Lab. Equipment Co. Inc.	1811 1st Ave. New York 28	NY
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Schueler & Co.	75 Cliff St. New York 38	NY
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
Thermolyne Corp.	465 Huff St. Dubuque	Iowa
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Webber Mfg. Co. Inc.	Box 217, Indianapolis 6	Ind
Will Corp.	Box 1050, Rochester 3	NY

BATTERIES—ELECTROCHEMICAL

A. E. I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Burgess Battery Co. Div. Servel, Inc.	Freeport	Ill
Dynage, Inc.	75 Laurel St. Hartford	Conn
Eagle-Picher Co.	American Bldg. Cincinnati	Ohio
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Mallory & Co., Inc. P. R.	3029 E Washington St. Indnpls. 6	Ind
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Patterson Moos Research Div. Lessons Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
RADIO CORP. OF AMERICA, ELECTRON TUBE DIV.		
Adv Pg 131	**415 S 5th St. Harrison**	**NJ**
Ray-O-Vac Co Div Elec Storage Battery Co	Madison	Wis
Yardney Electric Corp.	40 Leonard St. New York 13	NY

BATTERIES—NUCLEAR

American Electronics Inc. Nuclear Div.	9459 W. Jefferson Blvd. Culver City	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
Patterson Moos Research Div. Leesona Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
Radiation Research Corp.	1114 1st Ave. New York	NY

BEARINGS—BALL & ROLLER

Allison Div. Gen. Motors Corp.	Box 894, Indianapolis	Ind
Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Cooper Roller Bearings Co. Ltd.	Wisbech Rd. King's Lynn, Norfolk, Eng	
E. M. O. Instrumentation, Ltd.	Western Rd. Bracknell, Berks, Eng	
EX-CELL-O CORP. Adv. Pgs. 42, 43	1200 Oakman Blvd. Detroit 32	Mich
Fafnir Bearing Co.	37 Booth Ave. New Britain	Conn
Federal-Mogul-Bower Bearings, Inc.	11031 Shoemaker Ave. Detroit 13	Mich
Insley Industrial Supply Co. Ltd.	21-22 Poland St. London W1, England	
Kaydon Engineering Corp., The	Muskegon	Mich
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	1150 McBride Ave. Little Falls	NJ
Messenger Bearings, Inc.	730 N Easton Rd. Glenside	Pa
Miniature Precision Bearings, Inc.	Precision Pk. Keene	NH
New Departure Div. GMC	269 N Main St. Bristol	Conn
Norma Hoffmann Bearing Corp.	Hamilton Ave. Stamford	Conn
Pioneer Designs Ltd. Servokits Div.	6 Hampton Ct. Par, E Molesey, Surr, Eng	
Timken Roller Bearing Co.	1835 Dueber Ave. Canton 6	Ohio

BELLOWS & EXPANSION JOINTS

Aeroquip (Canada), Ltd.	287 Bridgeland Ave. Toronto 19, Ont. Can.	
Aeroquip-Marman Div.	11214 W Exposition Blvd. L A 64	Cal
Autocon Ind. Inc. Div. Automatic Control Co.	996 University Ave. St. Paul 4E	Minn
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Badger Mfg. Co.	230 Bent St. Cambridge	Mass
Barco Mfg. Co.	500 N Hough St. Barrington	Ill
Belfab Corp.	Daytona Beach	Fla
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Breeze Corps. Inc.	700 Liberty Ave. Union	NJ
Caird Ltd., Francis	Africa House, Kingsway, London WC 2, Eng	
Chicago Allis Mfg. Co.	113-125 N Green St. Chicago 7	Ill
Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
Croll-Reynolds Engineering Co.	1122 Main St. Stamford	Conn
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
Engineering Appliances Ltd.	3 Buckingham Pl. London SW1, Eng	
Fansteel Metallurgical Corp.	North Chicago	Ill
Flexonics Corp.	1315 S 3rd Ave. Maywood	Ill
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Flight Refueling Ltd.	Tarrant Rushton Arfld. Blanford, Dorset	Eng
Goodrich Co., B. F.	500 S Main St. Akron	Ohio
Metal Bellows Corp.	605 Mica Lane Wellesley	Mass
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
Robertshaw-Fulton Controls Co. Bridgeport Thermostat Div.	155 Hill St. Milford	Conn
Resistoflex Corp.	Woodland Rd. Roseland	NJ
Robertshaw-Fulton Controls Co. Fulton Sylphon Div.	Box 400, Knoxville 1	Tenn
Rotherm Engineering Co. Inc.	7280 W Devon Ave. Chicago	Ill
S. E. P. I.	4, rue de Londres, Paris 9, France	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Sealol Inc.	Warwick Industrial Pk. Providence 5	RI
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Thompson, Ltd., John	Wolverhampton, England	
Tube Turns Div. Chemetron Corp.	224 E Broadway, Louisville 1	Ky
United Flexible Metallic Tubing (Canada) Ltd.	Box 149, Richmond Hill, Ont Canada	
Vokes Genspring Ltd.	Guildford, Surrey, Eng.	
Yarnall-Waring Co.	102 E Mermaid Ln. Phila 18	Pa
ZALLEA BROTHERS, Adv Pg 67	Taylor & Locust Sts. Wilmington	Del

BETA COUNTERS
See CHAMBERS—IONIZATION, ALPHA, BETA & GAMMA
COUNTERS—RADIATION

BETA GAGES
See GAGES—THICKNESS OR DENSITY, RADIOACTIVITY

BETA-RAY SOURCES
See ACCELERATORS
SOURCES—RADIOACTIVE

BETATRONS
See Under ACCELERATORS

BINARY SCALERS
See SCALERS—BINARY
SCALING TUBES—DECADE

BLOWERS
See FANS & BLOWERS

BOOKS—TECHNICAL

Academic Press Inc.	111 5th Ave. New York 3	NY
Addison-Wesley Publishing Co. Inc.	Reading	Mass
Allied Radio Corp.	100 N Western Ave. Chicago 80	Ill
Atomic Laboratories, Inc.	3086 Claremont Ave. Berkeley 5	Cal
Blakiston Div. of McGraw-Hill Book Co.	330 W 42nd St. New York 36	NY
Bureau of National Affairs, Inc.	1281 24th St. NW, Washington 7	DC
Chronical of United Nations Activities	234 W 26th St. New York 1	NY
Columbia University Press	2960 Broadway, New York 27	NY
Commerce Clearing House	4025 W Peterson Ave. Chicago 46	Ill
Computer Systems Inc.	Culver Rd. Monmouth Junction	NJ
Consultants Bureau, Inc.	227 W 17th St. New York 11	NY
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
Interscience Publishers, Inc.	250 5th Ave. New York	NY
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Louisiana State University Press	Baton Rouge 3	La
Lytle Corp.	1404 San Mateo SE Albuquerque	NM
McGRAW-HILL BOOK CO. INC. Adv. Pgs. 230, 269,	330 W 42nd St. New York 36	NY
Oxford University Press	417 5th Ave. New York 16	NY
PERGAMON PRESS, INC. Adv Pg 98	122 E 55th St. New York 22	NY
Philosophical Library	15 E 40th St. New York 16	NY
Plenum Press, Inc.	227 W 17th St. New York 11	NY
Prentice-Hall, Inc.	Route 9W, Englewood Cliffs	NJ
RADIO CORP. OF AMERICA, ELECTRON TUBE DIV. Adv Pg 131	415 S 5th St. Harrison	NJ
Readex Microprint Corp.	100 5th Ave. New York	NY
Reinhold Publishing Corp.	430 Park Ave. New York 22	NY
Sams & Co. Inc., Howard W.	2201 E 46th St. Indianapolis 5	Ind
Simmons-Boardman Publishing Co.	30 Church St. New York 7	NY
Technical Dictionaries Co.	Box 144, New York 31	NY
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
University of California Press	Berkeley 4	Cal
University of Chicago Press	5750 Ellis Ave. Chicago 37	Ill
Van Nostrand Co. Inc., D.	120 Alexander St. Princeton	NJ
WILEY & SONS INC., JOHN, Adv Pg 218	440 4th Ave. New York 16	NY

BORAL
See METALS, ALLOYS & COMPOUNDS

BORESCOPES

Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Bodson & Fils, Ets. J.	14 bis, Rue Denis Papin, Puteaux (Seine)	Fr
Buhl Optical Co.	1009 Beech Ave. Pittsburgh 33	Pa
DIAMOND POWER SPECIALTY CORP. Adv Pg 132	Box 415 Lancaster	Ohio
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Keuffel & Esser Co.	300 Adams St. Hoboken	NJ
KOLLMORGEN CORP. Adv. Pgs. 10, 11	347 King St. Northampton	Mass
LEMOX INSTRUMENT CO. Adv Pg 54	2010 Chancellor St. Philadelphia 3	Pa
Lerma Engineering Corp.	53 Clark Ave. Northampton	Mass
Optical Works Ltd.	92 The Mall, Ealing W5, England	
Wallin Optical Systems Inc.	18670 Ventura Blvd. Tarzana	Cal

BOXES
See DRY BOXES

BRAKES—MAGNETIC

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Allis Co., Louis	427 E Stewart St. Milwaukee 7	Wis
Bowmar Instrument Corp.	8000 Bluffton Rd. Fort Wayne	Ind
Clark Controller Co.	1146 E 152 St. Cleveland 10	Ohio
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Electro Dynamics Div. Gen. Dynamics Corp.	163 Ave. A & North St. Bayonne	NJ
GENERAL ELECTRIC CO. APPARATUS SLS. OPP. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	

KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	1150 McBride Ave. Little Falls	NJ
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
P I C Design Corp.	477 Atlantic Ave. E Rockaway	NY
Valcor Engineering Corp.	333 Carnegie Ave. Kenilworth	NJ
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
Warner Electric Brake & Clutch Co.	Beloit	Wis

BRAZING EQUIPMENT
See *Under* FABRICATING EQUIPMENT

BRICK—RADIATION-SHIELDING
See *Under* SHIELDING—RADIATION

BUBBLE TRAYS
See SCRUBBERS—GAS

BURETTES—AUTOMATIC
See *Also* LABORATORY APPARATUS

Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Corning Glass Works	Corning	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
NUCLEAR MEASUREMENTS CORP. Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
Nuclear Science Associates	55 Manor Dr. Newark 6	NJ
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr. Bloomfield	NJ
Thomas Co., Arthur H.	Vine St. at 3rd, Philadelphia 5	Pa
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Will Corp.	Box 1050, Rochester 3	NY

BURST-SLUG DETECTORS
See DETECTORS—BURST-SLUG

CABINETS—DRYING

Aerialite, Ltd. Castle Wks.	Stalybridge, Cheshire, England	
Air-Shields, Inc.	Hatboro	Pa
Air & Refrigeration Corp.	439 Madison Ave. New York 17	NY
Bernard-Franklin Co. Inc.	4155 E Hedley St. Phila 37	Pa
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
Crouse-Hinds Co. of Canada Ltd.	1160 Birchmount Rd. Scarborough, Toronto, Ontario, Canada	
DELTA DESIGN, INC. Adv Pg 225	7460 Girard Ave. La Jolla	Cal
Duralab Equipment Corp.	989 Linwood St. Brooklyn 8	NY
Falstrom Co.	7 Falstrom Ct. Passaic	NJ
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Harvey & Co. (London) Ltd., G. A.	Woolwich Rd. London, SE7, England	
KEWAUNEE MFG. CO. Adv Pg 86	3083 S Center St. Adrian	Mich
Labline, Inc.	3070-82 W Grand Ave. Chicago 22	Ill
Lennard Co. Inc., P. M.	1061 E 8th St. Jacksonville 6	Fla
Manesty Machines Ltd.	Evans Rd. Liverpool 24, England	
Metalab Equipment Co.	270 Duffy Ave. Hicksville	NY
Modern Lab. Equipment Co., Inc.	1811 1st Ave. New York 28	NY
Terrias-Consolidated Industries	22-24 Wooster St. New York 13	NY
Vacuum Specialties Co. Inc.	34 Linden St. Somerville 2	Mass
Will Corp.	Box 1050, Rochester 3	NY

CABINETS—INSTRUMENT
See CONSOLES, CABINETS & PANELS

CABLE—ELECTRIC, RADIATION-RESISTANT
See WIRE & CABLE—RADIATION-RESISTANT

CALANDRIAS—REACTOR

AEROJET-GENERAL NUCLEONICS, Adv Pg 119	Box 77, San Ramon	Cal
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Consolidated Western Steel Div. U. S. Steel Corp.	Box 2015, Term. Ann. L A 54	Cal
EX-CELL-O CORP. Adv Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Farrel-Birmingham Co. Inc.	Ansonia	Conn
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
Leader Iron Works, Inc.	2110 N Jasper St. Decatur	Ill
New York Shipbuilding Corp.	Camden 1	NJ
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Steel & Alloy Tank Co.	Fr. Bessemer St. Newark 5	NJ
Thompson, Ltd., John	Wolverhampton, England	
Vulcan Mfg.	Box 22, Cincinnati 16	Ohio
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore

CAMERAS—RECORDING

Abrams Instrument Corp.	600 E Shiawassee St. Lansing	Mich
Abtronics, Inc.	64 S. P St. Livermore	Cal
Allegany Instrument Co. Inc.	1091 Wills Mountain, Cumberland	Md
Ansco Div. Gen. Anil. & Film Corp.	175 Clinton St. Binghamton	NY
Avco Research & Adv. Devel. Div.	201 Lowell St. Wilmington	Mass
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Beckman & Whitley, Inc.	993 E San Carlos Ave. San Carlos	Cal
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Cambridge Instrument Co. Inc.	420 Lexington Ave. New York 17	NY
Canadian Applied Research Ltd.	750 Lawrence Ave. W. Toronto 19, Ont Can	
Cossor Instruments Ltd.	Highbury Gr. London N5, England	
DuMont Labs., Allen B., Dv. Fairchild Cam & Inst Corp.	750 Bloomfield Ave. Clifton	NJ
E. M. I. ELECTRONICS LTD. Adv Pg 96	Hayes, Middlesex, England	
EDGERTON, GERMESHAUSEN & GRIER, INC. Adv Pg 231	160 Brookline Ave. Boston 15	Mass
Electro Medical Lab. Inc.	South Woodstock 6	Vt
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Electronic Tube Corp.	1200 E Mermaid Ln. Phila. 18	Pa
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Graflex, Inc.	3750 Monroe Ave. Rochester 3	NY
Hathaway Instruments, Inc.	5800 E Jewell Ave. Denver 22	Colo
KOLLMORGEN CORP. Adv. Pgs. 10, 11	347 King St. Northampton	Mass
Librascope Div. Gen Precision, Inc.	Glendale 1	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
New Electronic Products Ltd.	360 Kennington Rd. London, SE11, Eng	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Southern Instruments, Ltd.	Frimley Rd. Camberley, Surrey, England	
Tektronix, Inc.	Box 500, Beaverton	Ore
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Wallace & Tiernan, Inc.	25 Main St. Belleville 9	NJ
X-Ray Dept. General Electric Co.	4855 Electric Ave. Milwaukee	Wis

CAMERAS—X-RAY
See RADIOGRAPHIC EQUIPMENT—X-RAY

CANNED PUMPS
See PUMPS

CAPACITORS
NOTE: Various types of capacitors are not indicated in this listing. Contact manufacturer for specific type(s) desired.

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A. E. I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Aerovox Corp.	740 Belleville Ave. New Bedford	Mass
Airborne Accessories Corp.	1414 Chestnut Ave. Hillside 5	NJ
ALLIS-CHALMERS MFG. CO. Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
AMP Inc.	Eisenhower Blvd. Harrisburg	Pa
AMP Inc. Capitron Div.	155 Park St. Elizabethtown	Pa
Astron Corp.	255 Grant Ave. East Newark	NJ
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Axel Electronics, Inc.	134-20 Jamaica Ave. Jamaica 18	NY
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
British Insulated Callender's Cables, Ltd.	21 Bloomsbury St. London, WC1, Eng	
Bud Radio, Inc.	2118 E 55 St. Cleveland 3	Ohio
Centralab Div. Globe-Union, Inc.	900 E Keefe Ave. Milwaukee 1	Wis
Cornell-Dubilier Electronics Div. Fed. Pac. Elec. Co.	333 Hamilton Blvd. South Plainfield	NJ
Corning Glass Works	Corning	NY
Dale Products, Inc.	Box 488, Columbus	Neb
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Electron Products Div Marshall Industries	430 N Halstead St. Pasadena	Cal
Erie Resistor Corp.	644 W 12th St. Erie	Pa
Fansteel Metallurgical Corp.	North Chicago	Ill

Freed Transformer Co., Inc.	1718 Weirfield St. Brooklyn 27	NY
General Radio Co.	West Concord	Mass
Glenco Corp.	212 Durham Ave. Metuchen	NJ
Good-All Electric Mfg. Co.	112 W 1st St. Ogallala	Neb
Hathaway Instruments, Inc.	5800 E Jewell Ave. Denver 22	Colo
Hughes Semiconductor Div.	500 Superior Ave. Newport Beach	Cal
Hunt (Capacitors) Ltd., A. H.	Bendon Valley, Garratt Ln. Wandsworth London SW18, England	
Industrial Condenser Corp.	3243 N Calif. Ave. Chicago 18	Ill
Johnson Co., E. F.	Waseca	Minn
Mallory & Co., Inc. P. R.	3029 E Washington St. Indpls. 6	Ind
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mpls 8	Minn
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
Ohmite Mfg. Co.	3601 Howard St. Skokie	Ill
Physics Research Labs. Inc.	Box 555, Hempstead	NY
Plastic Capacitors, Inc.	2620 N Clybourn Ave. Chicago 14	Ill
Sangamo Electric Co.	11 & Converse Sts. Springfield	Ill
Scintilla Div. Bendix Corp.	Sidney	NY
Sickles Div. Gen. Instrument Corp.	165 Front St. Chicopee	Mass
Sprague Electric Co.	Marshall St. North Adams	Mass
Standard Pressed Steel Co.	Box 1083, Jenkintown	Pa
STEVENS-ARNOLD INC. Adv Pg 86	7 Elkins St. So. Boston 27	Mass
Suflex, Ltd.	54-58 Uxbridge Rd. London W5, England	
Tamitor Electronics Inc.	West Rd. Bennington	Vt
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
Texas Instruments Incorporated, Semiconductor-Components Div.	Box 312, Dallas	Tex
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Wayne Kerr Corp.	Box 801, Philadelphia 5	Pa
WELCH MFG. CO., W.M. Adv Pg 214	1515 Sedgwick St. Chicago 10	Ill
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

CAPACITORS—HIGH-VOLTAGE, LOW-INDUCTANCE

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Aerovox Corp.	740 Belleville Ave. New Bedford	Mass
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
AMP Inc.	Eisenhower Blvd. Harrisburg	Pa
AMP Inc. Capitron Div.	155 Park St. Elizabethtown	Pa
Astron Corp.	255 Grant Ave. East Newark	NJ
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Axel Electronics, Inc.	134-20 Jamaica Ave. Jamaica 18	NY
British Insulated Callender's Cables, Ltd.	21 Bloomsbury St. London, WC1, Eng	
Centralab Div. Globe-Union, Inc.	900 E Keefe Ave. Milwaukee 1	Wis
Cornell-Dubilier Electronics Div. Fed. Pac. Elec. Co.	333 Hamilton Blvd. South Plainfield	NJ
Corning Glass Works	Corning	NY
COSMIC, INC. Adv Pg 133	1028 Connecticut Ave. Washington 6	DC
Electro-Ceramics, Inc.	2645 S 2 W, Salt Lake City 15	Utah
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Electron Products Div Marshall Industries	430 N Halstead St. Pasadena	Cal
Epic, Inc.	150 Nassau St. New York 38	NY
Erie Resistor Corp.	644 W 12th St. Erie	Pa
Good-All Electric Mfg. Co.	112 W 1st St. Ogallala	Neb
Hathaway Instruments, Inc.	5800 E Jewell Ave. Denver 22	Colo
Hunt (Capacitors) Ltd., A. H.	Bendon Valley, Garratt Ln. Wandsworth London SW18, England	
Industrial Condenser Corp.	3243 N Calif. Ave. Chicago 18	Ill
Jennings Radio Mfg. Corp.	970 McLaughlin Ave. San Jose 8	Cal
Johnson & Phillips Ltd.	Victoria Way, London SE7, England	
Lapp Insulator Co. Inc.	159 Sumner St. LeRoy	NY
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Plastic Capacitors, Inc.	2620 N Clybourn Ave. Chicago 14	Ill
Sprague Electric Co.	Marshall St. North Adams	Mass
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

CAPSULES—IRRADIATION TESTING
See Also SERVICES: IN-PILE TEST DESIGN

AEROJET-GENERAL NUCLEONICS, Adv Pg 119	Box 77, San Ramon	Cal
Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
NUCLEAR-OHIO, INC. Adv Pg 54	27105 Kalkerbocker Rd. Cleveland 40	Ohio
NUCLEAR SCIENCE & ENGINEERING CORP. Adv Pg 216	Box 10901, Pittsburgh 36	Pa
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	

CARBON
See GRAPHITE

CARBON DIOXIDE
See Under GASES

CARBON—RADIOACTIVE
See ISOTOPES—RADIOACTIVE

CASKS—SHIELDED, SPENT-FUEL SHIPPING & STORAGE
See Also SHIELDING—RADIATION

Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
AMERICAN SMELTING & REFINING CO. Adv Pg 125	120 Broadway, New York 5	NY
Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	Dept H B, Philadelphia 42	Pa
BAR-RAY PRODUCTS, INC. Adv Pg 242	209 25th St. Brooklyn 32	NY
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Bleiwerk Goslar GmbH	Goslar, Germany	
Boucher & Co. Ltd.	Pike Mills, Green St. Kidderminster, Worcester, England	
BROOKS & PERKINS, INC. Adv Pg 48	1926 W Fort St. Detroit 16	Mich
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	Box 748, Fort Worth	Tex
Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
Edlow Lead Co.	725 Bank St. Columbus 16	Ohio
Enthoven & Sons, Ltd., H. J.	South Pl. London, EC2, England	
Farrel-Birmingham Co. Inc.	Ansonia	Conn
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
International Shielding Industries	Foot of West St. Wilmington	Del
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
KELLEY & CO., O. G. Adv Pg 38	98 Taylor St. Boston 22	Mass
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
L. & P. MACHINE CO. Adv Pg 238	2110 Belgrove Ave. Huntington Park	Cal
Lead Fabricators, Inc.	25 Belgrove Dr. Kearny	NJ
Lignostone Import Co.	Box 65, Gracie Sta. NY 28	NY
LINCOLN FOUNDRY CORP. Adv Pg 238	2325 E 49 St. Los Angeles	Cal
MIDWEST PIPING CO. INC. Adv Pg 71	1450 S 2nd St. St. Louis 4	Mo
NATIONAL ANNEALING BOX CO. Adv Pg 268	Washington	Pa
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
Nuclear Engineering Ltd.	Langley Nr. Slough, Bucks, England	
Nuclear Metals, Inc.	Box 222 Concord	Mass
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
PACIFIC COAST ENGINEERING CO. Adv Pg 32	PO Drawer E, Alameda	Cal
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
Radiation Products, Inc.	Pt. 40 Rd. Flushing 52	NY
RAY-PROOF CORP. Adv Pg 276	843 Canal St. Stamford	Conn
Schatzel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa

TRG, Inc.	2 Aerial Way, Syosset	NY
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 200, Burbank	Cal
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT. Adv. Pgs. 138, 139, 140	Forest Hills	Pa
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore

CASTINGS
1. IRON
2. STEEL
3. NONFERROUS

A. E. L. Ltd. 1-3	33 Grosvenor Pl. London SW1, Eng	
Allied Engineering & Production Corp. 3	2421 Blanding Ave. Alameda	Cal
ALLIS-CHALMERS MFG. CO. 1-3, Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Alloys Unlimited, Inc. 3	21-01 43rd Ave. LIC 1	NY
Alpha Metals, Inc. 3	60R Water St. Jersey City 4	NJ
Aluminum Co. of America, 3	1501 Alcoa Bldg. Pittsburgh 19	Pa
American Agile Corp. 3	Box 168, Bedford	Ohio
American Cast Iron Pipe Co. 1-2	Box 2603, Birmingham 2	Ala
Ames Metal Products Co. 3	4323 S Western Ave. Chicago	Ill
Andel & Co. Inc.	5218 N Kedzie Ave. Chicago 25	Ill
Austenal Co. Div. Howe Sound Co. Microcast Prods. 2	224 E 39 St. New York 16	NY
Avondale Shipyards, Inc. 1-2-3	Box 1030, New Orleans 8	La
BABCOCK & WILCOX CO. 1-2, Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd. 1-2-3	209 Euston Rd. London NW 1, England	
BALDWIN-LIMA-HAMILTON CORP. 2-3, Adv Pg 103	Dept H B, Philadelphia 42	Pa
Bean & Co., Morris, 1-3	Yellow Springs 15	Ohio
Inc. 3	322 Belmont Ave. Brooklyn 7	NY
Belmont Smelting & Refining Works, Bethlehem Steel Corp. 1-2-3	701 E 3rd St. Bethlehem	Pa
Birkett, Billington & Newton Ltd., T. M. 1-3	Etruria Rd. Hanley, Stoke-on-Trent, Staffs, England	
Blaw-Knox Co. 2	300 6th Ave. N. B. Pittsburgh 22	Pa
Bleiwerk Goslar GmbH, 3	Goslar, Germany	
Bonney-Floyd Co. 2	611 Marion Rd. Columbus 7	Ohio
Brown Ind. Ltd., David, 3	Hampson St. Manchester, England	
Canadian GE Co. Ltd. 1	107 Park St. Peterborough, Ont Can	
Canadian Vickers Ltd. 3	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Cedar Rapids Engineering Co. 1-2-3	902 17th St. NE, Cedar Rapids	Iowa
Cooper Alloy Corp. 2	Bloy St.-Ramsey Av. Hillside	NJ
Crouse-Hinds Co. of Canada Ltd. 1	1160 Birchmount Rd. Scarborough, Toronto, Ontario, Canada	
Curtiss-Wright Corp. Metals Processing Div. 1-2	Buffalo 15	NY
Dewrance & Co., Ltd. 3	Great Dover St. London SE1, England	
Division Lead Co. 3	7742 W 61st Pl. Summit	Ill
Dow Chemical Co. 3	Midland	Mich
Edlow Lead Co. 3	729 Bank St. Columbus 16	Ohio
Electric Boat Div. Gen. Dynamics Corp. 3	Groton	Conn
Electric Steel Foundry Co. 2	2141 NW 25th Ave. Portland 10	Ore
Electro-Thermal Industries, Inc. 3	57 S Main St. Pearl River	NY
English Electric Co. Ltd. 1-2	Eng. Elec. Hse. Strand, London WC2	Eng
English Steel Corp. Ltd. River Don Wks 2	Sheffield 9, Yorkshire, England	
Enthoven & Sons, Ltd., H. J. 3	South Pl. London, EC2, England	
Escher Wyss Ltd. 1-2	Zurich, Switzerland	
Farrel-Birmingham Co. Inc. 1	Ansonia	Conn
Foster Wheeler Ltd. 1	Box 430, St. Catharines, Ontario, Can.	
General Astrometals Corp. 3	320 Yonkers Ave. Yonkers 2	NY
General Electric Co. Foundry Dept 1-2-3	1 River Rd. Schenectady 5	NY
General Steel Castings Corp. 2	1417 State St. Granite City	Ill
HARVEY ALUMINUM, 3, Adv Pg 93	19200 S Western Ave. Torrance	Cal
Hathaway Instruments, Inc. 3	5800 E Jewell Ave. Denver 22	Colo
Haynes Stellite Co. Div. UCC, 3	1020 W Park Ave. Kokomo	Ind
Hills McCanna Co. 3	4605 W Touhy Ave. Chicago 46	Ill
International Shielding Industries, 3	Foot of West St. Wilmington	Del
Klockner-Werke AG, 2	Bessemerstr. 1, Osnabruck, Germany	
Knapp Mills Inc. 3	23-15 Borden Ave. LIC	NY
Koppers Co. Inc. Nuclear Prods. Sec. 1	Pittsburgh 19	Pa
L. & F. MACHINE CO. 1-2, Adv Pg 238	2110 Belgrove Ave. Huntington Park	Cal
LINCOLN FOUNDRY CORP. 1-2, Adv Pg 238	2525 E 49 St. Los Angeles	Cal
Mallory & Co., Inc., P. R. 3	3029 E Washington St. Indnpls. 6	Ind
Meehanite Metal Corp.	714 North Ave. New Rochelle	NY
Moffat Engineering Co. Ltd. 1-2-3	77 S Audley St. London W1, England	
NATIONAL LEAD CO.3, Adv. Pgs. 134,135	111 Broadway, New York 6	NY
National Tank & Boiler Co. 2-3	7210 Polson Ln. St. Louis	Mo
Nordberg Mfg. Co. 1-3	3073 S Chase Ave. Milwaukee	Wis
North British Steel Foundry Ltd. 2	Bathgate, W Lothian, Scotland	
Nuclear Metals, Inc. 1-2-3	Box 292 Concord	Mass
Nydqvist & Holm Aktiebolag, 3	Trollhatten, Sweden	
OPW-Jordan, 3	6013 Wiehe Rd. Cincinnati 13	Ohio
Officine Ing. Demichelis & C. 3	Via Bistolfi 31, Milan, Italy	
Oregon Metallurgical Corp. 3	Box 484, Albany	Ore
Orenda Engines Ltd. 1-2-3	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO. 3, Adv Pg 52	PO Drawer E, Alameda	Cal
Precision Castparts Corp. 1-2-3	4600 SE Harney Dr. Portland 6	Ore
RELIANCE INCORPORATED,3,Adv Pg 261	1210-1212 Adams Ave. Phila 24	Pa
Republic Steel Corp. 2	Republic Bldg. Cleveland 1	Ohio
Robatel & Mulatier, 3	59 A 69 Rue Baraban, Lyon, France	
S. I. A. C. 2, Adv Pg 276T	Via S. Sebastiano 2, Genoa, Italy	
SANDUSKY FOUNDRY & MACHINE CO. 2-3, Adv Pg 94	W Market St. Sandusky	Ohio
Semi-Alloys Inc. 3	550 S Fulton Ave. Mt. Vernon	NY
Southern Lead Rolling Co. 3	Box 6195, Dallas 22	Tex
Sperry Gyroscope Co. Div. Sperry Rand Corp. 3	Great Neck	NY
Stainless Foundry & Engineering, Inc. 2-3	5132 N 35th St. Milwaukee 9	Wis
Stearns-Roger Mfg. Co. 1	Box 5888, Denver 17	Colo
Sulzer Bros. 1-2-3	Winterthur, Switzerland	
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), 3, Adv Pg 2	Box 898, Attleboro	Mass
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, 1-2-3, Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
Trio Machine Works, Inc. 1-2-3	3045 N 3rd St. Philadelphia 33	Pa
Ugine, 2	10 rue du General Foy, Paris 8, France	
U S PIPE & FOUNDRY CO. STEEL & TUBES DIV. 2, Adv. Pgs. 18, 19	Burlington	NJ
VAR-LAC-OID CHEMICAL CO. 3, Adv Pg 265	116 Broad St. New York 4	NY
VIENER & SONS, HYMAN, 3, Adv Pg 262	5300 Hatcher St. Box 573, Richmond 5	Va
Waukesha Foundry Co. 2-3	Lincoln Ave. Waukesha	Wis
Westinghouse Elec Corp Materials Mfg 2-3	Blairsville	Pa
Wisconsin Centrifugal Foundry, Inc. 1-2-3	905 E St. Paul Ave. Waukesha	Wis
Yuba Consolidated Industries, Inc. 1-2-3	1 Bush St. San Francisco 4	Cal

CELLS—HOT
See HOT LABORATORIES

CENTRIFUGES

Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
ASSOCIATED TESTING LABS. INC. Adv Pg 268	134 Rte. 46, Wayne	NJ
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	Dept H B, Philadelphia 42	Pa
Bryans Aeroquipment Ltd.	Willow Ln. Mitcham, Surrey, England	
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Condenser Service & Engng. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Custom Scientific Instruments Inc.	541 Devon St. Kearny	NJ
Dorr-Oliver Inc.	77 Havemeyer Ln. Stamford	Conn
Electro-Nucleonics Inc.	Box 707, Caldwell	NJ
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
Genisco, Inc.	2233 Federal Ave. L A 64	Cal
Goodenough Pumps Ltd.	112 Jermyn St. London SW1, England	
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
International Equipment Co.	1284 Soldiers Field Rd. Boston 35	Mass
Labline, Inc.	3070-82 W Grand Ave. Chicago 22	Ill
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
Pfaudler Co. Div. Pfaudler Permutit Inc.	1000 West Ave. Rochester 3	NY
Phillips-Drucker, Inc.	Rt. 1, Box 916B, Astoria	Ore
Podbielniak Inc.	341 E Ohio St. Chicago 11	Ill
Research Specialties Co.	200 S Garrard Blvd. Richmond	Cal
Rucker Co.	4700 San Pablo Ave. Emeryville	Cal
Schaevitz Engineering	Rt. 130 & Schaevitz Blvd. Pennsauken	NJ
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Will Corp.	Box 1050, Rochester 3	NY

CERAMICS
See Also FUEL ELEMENTS
METALS, ALLOYS & COMPOUNDS
REFRACTORIES

Acoustica Associates Inc.	5305 W 102 St. Los Angeles 45	Cal
AEROJET-GENERAL NUCLEONICS, Adv Pg 119	Box 77, San Ramon	Cal
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Barium & Chemicals, Inc.	4043 Erie St. Willoughby	Ohio
BRUSH BERYLLIUM CO. Adv Pg 84	5209 Euclid Ave. Cleveland 3	Ohio
Centralab Div. Globe-Union, Inc.	900 E Keefe Ave. Milwaukee 1	Wis
Coors Porcelain Co.	609 9th St. Golden	Colo
Corning Glass Works	Corning	NY
Curtiss-Wright Corp. Research Div.	Quehanna	Pa

Degussa	Frankfurt/Main, Germany	
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Du-Co Ceramics Co.	Box 278, Saxonburg	Pa
Electro-Ceramics, Inc.	2645 S 2 W, Salt Lake City 15	Utah
Electro-Thermal Industries, Inc.	57 S Main St, Pearl River	NY
Emerson & Cuming, Inc.	59 Walpole St. Canton	Mass
Erie Resistor Corp.	644 W 12th St, Erie	Pa
Frenchtown Porcelain Co.	Frenchtown	NJ
General Astrometals Corp.	320 Yonkers Ave, Yonkers 2	NY
Glenco Corp.	212 Durham Ave. Metuchen	NJ
Laboratory Equipment Corp.	St. Joseph	Mich
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Metal Diffusions Ltd.	292 Worton Rd. Isleworth, Mddx, Eng	
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
Minnesota Mining & Mfg. Co.	900 Bush Ave, St. Paul 6	Minn
Morgan Crucible Co. Ltd.	Battersea Church Rd, London SW11, Eng	
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
National Beryllia Corp.	4501 Dell Ave, North Bergen	NJ
Norton Co.	1 New Bond St, Worcester 6	Mass
Nuclear Metals, Inc.	Box 222 Concord	Mass
Patterson Foundry & Machine Co.	East Liverpool	Ohio
Planer Ltd., G.V.	Windmill Rd, Sunbury-on-Thames, Mddx.Eng	
Porcelain Products, Co.	225 N Patterson St. Carey	Ohio
Raytheon Co. Microwave & Power Tube Div.	Foundry Ave, Waltham	Mass
Raytheon Co. Research Div. High Temp Materials Dept.	Waltham 54	Mass
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Saxonburg Ceramics, Inc.	Saxonburg	Pa
Solar Aircraft Co.	2200 Pacific Hwy, San Diego 12	Cal
Sprague Electric Co.	Marshall St, North Adams	Mass
Star Porcelain Co.	21 Muirhead Ave. Trenton	NJ
Steward Mfg. Co., D. M.	E 36 St. Chattanooga 1	Tenn
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd, Bayside	NY
Thermal Refractories Corp.	4501 Dell Ave, North Bergen	NJ
Trionics Corp.	Box 548, Madison 1	Wis
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
U. S. STONEWARE CO. Adv Pg 79	Akron 9	Ohio
Western Gold & Platinum Co.	525 Harbor Blvd, Belmont	Cal
Zirconium Corp. of America	31506-B Solon Rd. Solon 39	Ohio

CHAMBERS—ENVIRONMENTAL TEST

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
Acme Electric Heating Corp.	99 Reading St, Roxbury 19	Mass
Air-Shields, Inc.	Hatboro	Pa
Aireco, Inc.	2323 2nd Ave. Carmen, Schenectady	NY
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
American Research Corp.	Route 6, Farmington	Conn
ASSOCIATED TESTING LABS. INC. Adv Pg 268	134 Rte. 46, Wayne	NJ
Avco Research & Adv. Devel. Div.	201 Lowell St, Wilmington	Mass
Bryans Aeroquipment Ltd.	Willow Ln, Mitcham, Surrey, England	
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Cincinnati Sub Zero Products	3932 Reading Rd, Cincinnati	Ohio
Conrad Inc.	141 Jefferson St. Holland	Mich
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	Box 748, Fort Worth	Tex
Cook Electric Co, Nucleonics Div.	3412 River Rd, Franklin Park	Ill
Cryogenerators Inc.	Ashton	Md
Custom Scientific Instruments Inc.	541 Devon St. Kearny	NJ
DELTA DESIGN, INC. Adv Pg 225	7460 Girard Ave. La Jolla	Cal
Gallenkamp & Co. Ltd., A.	Sun St, London, E. C. 2, England	
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
Haskell Engineering Co.	1236 S Central Ave. Glendale 4	Cal
High Vacuum Equipment Corp.	2 Churchill Rd, Hingham	Mass
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSTON LABS. INC., WILLIAM H., Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kaiser Fleetwings, Inc.	Bristol	Pa
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
L. & F. MACHINE CO. Adv Pg 238	2110 Belgrove Ave. Huntington Park	Cal
Labline, Inc.	3070-82 W Grand Ave, Chicago 22	Ill
LINCOLN FOUNDRY CORP. Adv Pg 238	2525 E 49 St. Los Angeles	Cal
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Modern Lab. Equipment Co., Inc.	1811 1st Ave. New York 28	NY
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. Adv Pg 136	80 Charlemont St. Newton Highlands 61	Mass
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Rucker Co.	4700 San Pablo Ave. Emeryville	Cal
Sheffield Corp. Sub. Bendix Corp	721 Springfield St. Dayton 1	Ohio
Solar Aircraft Co.	2200 Pacific Hwy, San Diego 12	Cal
Statham Instruments, Inc.	12401 W Olympic Blvd. LA 64	Cal
STOKES CORP., F. J. Adv Pg 85	5500 Tabor Rd. Philadelphia 20	Pa
Temperature Engineering Corp.	1200 Union Landing Rd, Riverton	NJ
Tenney Engineering, Inc.	1090 Springfield Rd. Union	NJ
Terrier-Consolidated Industries	22-24 Wooster St. New York 13	NY
Tranter Mfg. Inc.	725 E Hazel St. Lansing 9	Mich
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
U. S. Testing Co. Inc.	1415 Park Ave. Hoboken	NJ
VACUUM-ELECTRONIC CORP. Adv Pg 260	Terminal Dr. Plainview	NY
Vacuum Metallurgical Developments, Ltd.	Shelford, Cambridge, England	
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St, Cambridge, Eng	
Vacuum Specialties Co. Inc.	34 Linden St. Somerville 2	Mass
Vulcan Mfg.	Box 22, Cincinnati 15	Ohio
Waltham Precision Instrument Co.	221 Crescent St. Waltham 54	Mass
Warren Corp.	2901 Brighton Rd. Pittsburgh 12	Pa
Webber Mfg. Co. Inc.	Box 217, Indianapolis 6	Ind
Will Corp.	Box 1050, Rochester 3	NY
Willamette Iron & Steel Co.	280 NW Frost Ave. Portland	Ore

CHAMBERS—FISSION

AMPEREX ELECTRONIC CORP. Adv Pg 145	230 Duffy Ave. Hicksville	NY
ANTON ELECTRONIC LABS. INC. Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
HAMMER ELECTRONICS CO. Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
Kaiser Fleetwings, Inc.	Bristol	Pa
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
REUTER-STOKES ELECTRONIC COMPONENTS, INC. Adv Pg 226	2149 Hamilton Ave. Cleveland 14	Ohio
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Terrier-Consolidated Industries	22-24 Wooster St. New York 13	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
WESTINGHOUSE ELECTRIC CORP. ELECTRONIC TUBE DIV. Adv. Pgs. 82, 83, 138, 139	Box 284, Elmira	NY

CHAMBERS—IONIZATION, ALPHA, BETA & GAMMA

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
AMPEREX ELECTRONIC CORP. Adv Pg 145	230 Duffy Ave. Hicksville	NY
ANTON ELECTRONIC LABS. INC. Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
APPLIED PHYSICS CORP. Adv Pg 256	2724 S Peck Rd. Monrovia	Cal
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Baldwin Industrial Controls	Dartford, Kent, England	
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Caratom	17 Bd. de la Liberation, St. Denis, Seine	Fr
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Electronic Instruments Ltd.	Lower Mortlake Rd. Richmond, Surrey	Eng
FRIESEKE & HOEPFNER GmbH, Adv Pg 276H	Erlangen-Bruck, Germany	
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS. Adv Pg 74	Box 90515, Int. Airpt. LA 45	Cal
Instrument & Development Prods Co. Inc.	355 W 109th Pl. Chicago	Ill
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
JOHNSTON LABS. INC., WILLIAM H., Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md

Jordan Electronics	Alhambra	Cal
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kaiser Fleetwings, Inc.	Bristol	Pa
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
LANDSVERK ELECTROMETER CO.		
Adv Pg 255	**641 Sonora Ave. Glendale 1**	**Cal**
Lasker Boiler & Engineering Corp.	3201 S Wolcott Ave. Chicago 8	Ill
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
MEILLON, INC., GEORGE T. Adv Pg 252	**132 Nassau St. New York 38**	**NY**
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Neutronics Laboratory	Tinley Park	Ill
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	**2 Richwood Pl. Denville**	**NJ**
NUCLEAR-ELECTRONICS CORP.		
Adv Pg 6	**2925 N Broad St. Philadelphia 32**	**Pa**
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	**196 Degraw St. Brooklyn 31**	**NY**
Ohmart Corp.	2236 Bogen St, Cincinnati 14	Ohio
PICKER X-RAY CORP. Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
REUTER-STOKES ELECTRONIC COMPONENTS, INC.		
Adv Pg 226	**2149 Hamilton Ave. Cleveland 14**	**NY**
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SELO	Via Monfalcone, 12, Milano, Italy	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TECHNICAL ASSOCIATES, Adv Pg 41	**140 W Providencia Ave. Burbank**	**Cal**
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
Terrisr-Consolidated Industries	22-24 Wooster St. New York 13	NY
TOKYO SHIBAURA ELECTRIC CO., LTD.	**12 Yuraku-cho 1-Chome, Chiyoda-ku,**	
Adv Pg 276D	**Tokyo, Japan**	
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd. Waltham 54**	**Mass**
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
U. S. NUCLEAR CORP. Adv Pg 262	**801 N Lake St. Box 208, Burbank**	**Cal**
Uranium Instruments Co.	Box 1191, Grand Junction	Colo
VICTOREEN INSTRUMENT CO.		
Adv. Pgs. 112, 113	**5800-11 Hough Ave. Cleveland 3**	**Ohio**
Walsh Associates, Charles	Box 244, Deerfield	Ill
WESTINGHOUSE ELECTRIC CORP. ELECTRONIC TUBE DIV.		
Adv. Pgs. 82, 83, 138, 139	**Box 284, Elmira**	**NY**
X-Ray Dept. General Electric Co.	4855 Electric Ave, Milwaukee	Wis
Zentralwerkstatt Gottingen GmbH	Box 624, Gottingen, W Germany	

CHAMBERS—IONIZATION, GRIDDED

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
ANTON ELECTRONIC LABS. INC.		
Adv Pg 261	**1226-38 Flushing Ave. Brooklyn 37**	**NY**
INTERTECHNIQUE S.A. Adv Pg 276S	**81 rue Escudier, Boulogne-Billancourt, Seine, France**	
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	**2 Richwood Pl. Denville**	**NJ**
Ohmart Corp.	2236 Bogen St, Cincinnati 14	Ohio
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
SELO	Via Monfalcone, 12, Milano, Italy	
SHARP LABORATORIES, INC.		
Adv Pg 248	**Box 1302, La Jolla**	**Cal**
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
TOKYO SHIBAURA ELECTRIC CO., LTD.	**12 Yuraku-cho 1-Chome, Chiyoda-ku,**	
Adv Pg 276D	**Tokyo, Japan**	
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd. Waltham 54**	**Mass**
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
U. S. NUCLEAR CORP. Adv Pg 262	**801 N Lake St. Box 208, Burbank**	**Cal**
Uranium Instruments Co.	Box 1191, Grand Junction	Colo
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walsh Associates, Charles	Box 244, Deerfield	Ill

CHAMBERS—IONIZATION, NEUTRON

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
AMPEREX ELECTRONIC CORP.		
Adv Pg 145	**230 Duffy Ave. Hicksville**	**NY**
ANTON ELECTRONIC LABS. INC.		
Adv Pg 261	**1226-38 Flushing Ave. Brooklyn 37**	**NY**
ATOMIC ACCESSORIES, INC. Adv Pg 214	**811 W Merrick Rd. Valley Stream**	**NY**
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	**Box 748, Fort Worth**	**Tex**
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
HANNER ELECTRONICS CO.		
Adv. Pg. 2nd Cover	**Box 531, Princeton**	**NJ**
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 120	**170 W Providencia, Burbank**	**Cal**
Kaiser Fleetwings, Inc.	Bristol	Pa
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
LANDSVERK ELECTROMETER CO.		
Adv Pg 255	**641 Sonora Ave. Glendale 1**	**Cal**
La Radiotechnique	130, Av. Ledru-Rollin-Paris 11, France	
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Neutronics Laboratory	Tinley Park	Ill
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	**2 Richwood Pl. Denville**	**NJ**
Nuclear Development Lab.	Box 7034, Kansas City	Mo
Picker & Hanting Vertrieb GMBH	Espelkamp-Mittwald Km. Lubbecke, Westfalen, Germany	
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
RUETER-STOKES ELECTRONIC COMPONENTS, INC.		
Adv Pg 226	**2149 Hamilton Ave. Cleveland 14**	**Ohio**
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
TOKYO SHIBAURA ELECTRIC CO., LTD.	**12 Yuraku-cho 1-Chome, Chiyoda-ku,**	
Adv Pg 276D	**Tokyo, Japan**	
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
U. S. NUCLEAR CORP. Adv Pg 262	**801 N Lake St. Box 208, Burbank**	**Cal**
Uranium Instruments Co.	Box 1191, Grand Junction	Colo
VICTOREEN INSTRUMENT CO.		
Adv. Pgs. 112, 113	**5800-11 Hough Ave. Cleveland 3**	**Ohio**
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walsh Associates, Charles	Box 244, Deerfield	Ill
WESTINGHOUSE ELECTRIC CORP. ELECTRONIC TUBE DIV.		
Adv. Pgs. 82, 83, 138, 139	**Box 284, Elmira**	**NY**

CHARGERS—DOSIMETER
See DOSIMETER CHARGERS

CHELATING AGENTS
See DECONTAMINANTS

CHEMICALS
See Also ISOTOPE-LABELED COMPOUNDS
METALS, ALLOYS & COMPOUNDS

Aceto Chemical Co. Inc.	40-40 Lawrence St. Flushing 54	NY
Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
Aluminum Co. of America	1501 Alcoa Bldg. Pittsburgh 19	Pa
American Potash & Chem. Corp.	99 Park Ave. New York 16	NY
Baker & Adamson Products, General Chem. Div. Allied Chemical Corp.	40 Rector St. New York 6	NY
Barium & Chemicals, Inc.	4043 Erie St. Willoughby	Ohio
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Bios Laboratories, Inc.	17 W 60th St. New York 23	NY
Bishop & Co., J., Platinum Works	Malvern	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
City Chemical Corp.	132 W 22nd St. New York 11	NY
Dearborn Chemical Co.	Merch. Mart Plaza, Chicago 54	Ill
Degussa	Frankfurt/Main, Germany	
Devcon Corp.	Endicott St. Danvers	Mass

Dow Chemical Co.	Midland	Mich
Dow Corning Corp.	Midland	Mich
Eastern Chemical Corp.	34 Spring St, Newark 4	NJ
Fine Chemical Co.	250 W 57th St, New York 19	NY
FINNELL SYSTEM INC. Adv Pg 250	**506 East St. Elkhart**	**Ind**
Fisher Scientific Co.	709 Forbes St, Pittsburgh 19	Pa
Foote Mineral Co.	18 W Chelten Ave, Phila 44	Pa
General Biochemicals, Inc.	Laboratory Pk, Chagrin Falls	Ohio
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St, Cleveland 6**	**Ohio**
Ionics Inc.	152 6th St, Cambridge 42	Mass
ISOMET CORP. Adv Pg 126	**433 Commercial Ave, Palisades Park**	**NJ**
Kent Chemicals Ltd.	1292 Franklin St, Vancouver 6, BC	
Kessler Chemical Co. Inc.	State Rd. & Cottman Ave, Phila. 35	Pa
Koppers Co, Inc, Nuclear Prods, Sec.	Pittsburgh 19	Pa
LaPine & Co., Arthur S.	6001 S Knox Ave, Chicago 29	Ill
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts, St. Louis 7	Mo
Maritime Chemical & Repair Corp.	423 Hamilton Ave, Brooklyn 32	NY
Metal & Thermit Corp.	Rahway Ave, Rahway	NJ
Monsanto Chemical Co, Plastics Div.	600 Monsanto Ave, Springfield 2	Mass
Monsanto Chemicals Ltd.	10/18 Victoria St, London SW1, Eng	
NATIONAL LEAD CO. Adv. Pgs. 134, 135	**111 Broadway, New York 6**	**NY**
New York Transformer Co. Inc.	3rd Ave, Alpha	NJ
NUCLEAR ENTERPRISES LTD. Adv Pg 258	**550 Berry St, Winnipeg 12, Manitoba**	
PECHINEY, Adv Pg 105	**23 Rue Balzac, Paris, Seine, France**	
Pennsalt Chemicals Corp.	3 Penn Center, Philadelphia 2	Pa
Pfizer & Co. Inc., Charles	630 Flushing Ave, Brooklyn 6	NY
Philadelphia Quartz Co.	1146X Public Ledger Bldg, Phila. 6	Pa
PILOT CHEMICALS, INC. Adv Pg 66	**Dept. N, 36 Pleasant St, Watertown 72**	**Mass**
Reichhold Chemicals, Inc.	525 N Broadway, White Plains	NY
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Schueler & Co.	75 Cliff St, New York 38	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd, Saxonburg**	**Pa**
Silicones Div. UCC	270 Park Ave, New York 17	NY
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	**240 W 17th St, New York 11**	**NY**
Thomas Co., Arthur H.	Vine St. at 3rd, Philadelphia 5	Pa
TURCO PRODUCTS, INC. Adv Pg 268	**Box 1055, Wilmington**	**Cal**
Union Carbide Chemicals Co. Div. UCC	270 Park Ave, New York 17	NY
U. S. STEEL CORP. Adv. Pgs. 56, 57	**525 Wm. Penn Pl, Pittsburgh 30**	**Pa**
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St, New York 4**	**NY**
VITRO CHEMICAL CO. Adv Pg 254	**342 Madison Ave, New York 17**	**NY**
Wallace & Tiernan, Inc.	25 Main St, Belleville 9	NJ
Walsco Electronics Mfg. Co. Div. Textron, Inc.	400 S Wyman St, Rockford	Ill
Will Corp.	Box 1050, Rochester 3	NY

CHEMICALS—LABELED
See ISOTOPE-LABELED COMPOUNDS

CHOKES—FILTER
See INDUCTANCES

CHROMATOGRAPHIC APPARATUS

Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd, St. Louis 13	Mo
American Instrument Co. Inc.	8030 Georgia Ave, Silver Spring	Md
Atomasters-Buntaine Corp.	111 W Jewel Ave, St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. Adv Pg 214	**811 W Merrick Rd, Valley Stream**	**NY**
ATOMIC DEVELOPMENT & MACHINE CORP. Adv Pg 128	**15-04 130 St, College Point 56**	**NY**
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St, Rockford	Ill
Beckman Instruments, Inc. Scientific & Process Instruments Div.	2500 Fullerton Rd, Fullerton	Cal
Bio-Rad Laboratories	1257 S 32nd St, Richmond	Cal
Central Scientific Co.	1700 Irving Park Rd, Chicago 13	Ill
Chicago Apparatus Co.	1735 N Ashland Ave, Chicago 22	Ill
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Cornelius Co. Aero Div.	550 39 Ave, NE, Minneapolis 21	Minn
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave, Newark 12	NJ
Fischer & Porter Co.	50 Warminster Rd, Warminster	Pa
Fisher Scientific Co.	709 Forbes St, Pittsburgh 19	Pa
FORRO SCIENTIFIC CO. Adv Pg 236	**833 Lincoln St, Evanston**	**Ill**
FRIESEKE & HOEPFNER GmbH, Adv Pg 276N	**Erlangen-Bruck, Germany**	
Gallenkamp & Co. Ltd., A.	Sun St, London, E. C. 2, England	
Gelman Instrument Co.	106 N Main St, Chelsea	Mich
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St, Cleveland 6**	**Ohio**
Isotope Accessories Co.	5312 Westminster Ave, Philadelphia 31	Pa
JOHNSTON LABS. INC., WILLIAM H., Adv Pg 90	**3617 Woodland Ave, Baltimore 15**	**Md**
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
LKB-Produkter Fab.	Box 12220, Stockholm 12, Sweden	
Labline, Inc.	3070-82 W Grand Ave, Chicago 22	Ill
LaPine & Co., Arthur S.	6001 S Knox Ave, Chicago 29	Ill
Leeds & Northrup Co.	4936 Stenton Ave, Phila 44	Pa
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
M.B.L.E. Adv. Pgs. 259, 276V	**88 Rue des Deux Gares, Brussels 7, Belg**	
Microchemical Specialties Co.	1825 Eastshore Hwy, Berkeley 10	Cal
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80, 81	**345 E Howard Ave, Des Plaines**	**Ill**
Perkin-Elmer Corp. Instrument Div.	Main Ave, Norwalk	Conn
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
Pye & Co. Ltd., W. G.	York St, Cambridge, England	
Rascher & Betzold, Inc.	730 N Franklin St, Chicago 10	Ill
Research Specialties Co.	200 S Garrard Blvd, Richmond	Cal
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
Schleicher & Schuell Co., Carl	Keene 8	NH
Schueler & Co.	75 Cliff St, New York 38	NY
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr, Bloomfield	NJ
Servonuclear Corp.	28-21 Astoria Blvd, Long Island City	NY
Siemens & Halske AG	Rheinbruenkenstr, 80, Karlsruhe, Germany	
Texas Instruments Incorporated, Geosciences & Instrumentation Div.	3609 Buffalo Speedway, Houston 6	Tex
Thomas Co., Arthur H.	Vine St, at 3rd, Philadelphia 5	Pa
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd, Waltham 54**	**Mass**
Vanguard Instrument Co.	Box 244 La Grange	Ill
Victory Engineering Corp.	Box 373, Union	NJ
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Will Corp.	Box 1050, Rochester 3	NY

CIRCULATORS—GAS
See COMPRESSORS—AIR & GAS
FANS & BLOWERS

CLEANERS—ULTRASONIC
See ULTRASONIC EQUIPMENT

CLOTHING MONITORS—RADIOACTIVITY
See Under MONITORS—RADIATION

CLOTHING—PROTECTIVE
See Also MASKS—PROTECTIVE
SERVICES: LAUNDRY

A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Air Reduction Co. Inc.	150 E 42 St, New York 17	NY
American Optical Co. Safety Prods. Div.	28 Mechanic St, Southbridge	Mass
BAR-RAY PRODUCTS, INC. Adv Pg 242	**209 25th St, Brooklyn 32**	**NY**
Blue Star Knitting, Inc.	1430DN Farwell Ave, Milwaukee 2	Wis
CHARLESTON RUBBER CO. Adv Pg 73	**Stack Industrial Pk, Charleston**	**SC**
Chicago Transparent Bag Co.	4806 W Chicago Ave, Chicago 51	Ill
Defense Apparel	115 Allyn St, Hartford	Conn
Eastwood Plastics, Ltd. Priory Wks.	Arterial Rd, Leigh-on-Sea, Essex, Eng	
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
Industrial Over-All Laundry	1604 Thomaston Ave, Waterbury 14	Conn
Interstate Industrial Uniform Rental Service	295 Parker St, Indian Orchard	Mass
Johns-Manville	22 E 40th St, New York 16	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	**St. Louis**	**Mich**
Mine Safety Appliances Co.	201 N Braddock Ave, Pittsburgh 8	Pa
National Cylinder Gas Div. Chemetron Corp.	800 N Michigan Ave, Chicago 11	Ill
New Jersey Safety Equip. Co.	299 Park Ave, Box 186, East Orange	NJ
Nuclear Decontamination Corp.	Apollo	Pa
Nuclear Engineering Co. Inc.	65 Ray St, Box 218, Pleasanton	Cal
Nuclear Laundry Service Inc.	Box 4145, Waterbury 14	Conn
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	**Apollo**	**Pa**
Plasco Safety Products Co.	Box 367 Springfield	Ohio
Plasticsmith, Inc.	Box 1071, Pittsburg	Cal
Plastimayd Corp.	2204 SE 7th Ave, Portland 14	Ore
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
RADIATION COUNTER LABS. INC. Adv Pg 39	**5122 W Grove St, Skokie**	**Ill**
Radiation Hazard Control Co.	Fort Atkinson	Wis
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Snyder Mfg. Co. Inc.	Box 464, New Philadelphia	Ohio
Standard Safety Equipment Co.	431 N Quentin Rd, Palatine	Ill
Worklon, Inc.	253 W 28th St, New York 1	NY
Yonkers Industrial Plastic Products Co.	49 W 39rd St, New York 1	NY

CLUTCHES—MAGNETIC

Allis Co., Louis	427 E Stewart St, Milwaukee 7	Wis
Bowmar Instrument Corp.	8000 Bluffton Rd. Fort Wayne	Ind
Cutler-Hammer, Inc.	412 N 12th St, Milwaukee 1	Wis
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	**Erith, Kent, England**	
Haydon Mfg. Co.	245 E Elm St, Torrington	Conn
Lear, Inc.	110 Ionia Ave, NW, Grand Rapids	Mich
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
P I C Design Corp.	477 Atlantic Ave. E Rockaway	NY
Reeves Instrument Corp.	E Gate Blvd. Garden City	NY
Technology Instrument Corp.	531 Main St, Acton	Mass
Valcor Engineering Corp.	333 Carnegie Ave. Kenilworth	NJ
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
Warner Electric Brake & Clutch Co.	Beloit	Wis

COATINGS—PROTECTIVE, PERMANENT
See Also PAINTS—PROTECTIVE

Acheson Colloids Co.	1635 Washington Ave. Port Huron	Mich
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Amercoat Corp.	4809 Firestone Blvd. South Gate	Cal
American Agile Corp.	Box 168, Bedford	Ohio
Arco Co.	7301 Bessemer Ave. Cleveland 27	Ohio
Avco Research & Adv. Devel. Div.	201 Lowell St, Wilmington	Mass
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Berk & Co. Ltd., F. W., Coatings Div.	Brent Cres, N Circular Rd. London NW 10,	England
Biggs Co., Carl H.	1547 14th St. Santa Monica	Cal
Bleiwerk Goslar GmbH	Goslar, Germany	
Brown Ind. Ltd., David	Hampson St, Manchester, England	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
CARBOLINE CO. Adv Pg 252	**32 Hanley Ind. Ct. St. Louis 17**	**Mo**
Chemical Development Corp.	Endicott St. Danvers	Mass
Columbia Technical Corp.	61-02 31 Ave, Woodside 77	NY
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Dearborn Chemical Co.	Merch. Mart Plaza, Chicago 54	Ill
Devcon Corp.	Endicott St. Danvers	Mass
Dow Chemical Co.	Midland	Mich
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Eagle-Picher Co.	American Bldg. Cincinnati	Ohio
Electro-Thermal Industries, Inc.	57 S Main St, Pearl River	NY
Emerson & Cuming, Inc.	59 Walpole St. Canton	Mass
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Esso Standard Div. Humble Oil & Ref Co.	15 W 51st St. New York 19	NY
EVERSHIELD PRODUCTS, INC. Adv Pg 256	**Joppa**	**Md**
Foster Co., Benjamin	4635-37 W Girard Ave. Philadelphia 31	Pa
Fuller Co., H. B., Resiweld Div.	255 Eagle St. St. Paul 2	Minn
GENERAL AMERICAN TRANSPORTATION CORP. Adv Pg 58	**135 S LaSalle St. Chicago 3**	**Ill**
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
Glesener Co., A. J.	975 Bryant St. San Francisco 3	Cal
Glidden Co.	900 Union Commerce Bldg Cleveland 14	Ohio
Humble Oil & Ref Co. Humble Div.	Box 2180, Houston 1	Tex
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Inertol Co. Inc.	484-7 Frelinghuysen Ave. Newark 12	NJ
International Shielding Industries	Foot of West St. Wilmington	Del
KELLEY & CO., O. G. Adv Pg 30	**98 Taylor St. Boston 22**	**Mass**
Keuffel & Esser Co.	300 Adams St. Hoboken	NJ
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
Koppers Co. Inc. Nuclear Prods. Sec.	Pittsburgh 19	Pa
Lithcote Corp.	5000 W Lake St. Melrose Park	Ill
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	**St. Louis**	**Mich**
Micro Circuits Co.	New Buffalo	Mich
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
NATIONAL LEAD CO. Adv. Pgs. 134, 135	**111 Broadway, New York 6**	**NY**
New York Air Brake Co.	230 Park Ave. New York 17	NY
Norton Co.	1 New Bond St. Worcester 6	Mass
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	**Apollo**	**Pa**
Nuclear Metals, Inc.	Box 222 Concord	Mass
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Oakite Products, Inc.	19 Rector St. New York 6	NY
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO. Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
Pennsalt Chemicals Corp.	3 Penn Center, Philadelphia 2	Pa
Permagile Corp. of America	34-43 56th St. Woodside	NY
Pfaudler Co. Div. Pfaudler Permutit Inc.	1000 West Ave. Rochester 3	NY
Philadelphia Quartz Co.	1146X Public Ledger Bldg. Phila. 6	Pa
Plasmadyne Corp.	3839 S Main St. Santa Ana	Cal
Preco Chemical Corp.	589 Main St. Westbury	NY
Raytheon Co. Research Div. High Temp Materials Dept.	Waltham 54	Mass
Reilly Tar & Chemical Corp.	1615 Merchants Bank Bldg. Indianapolis 4	Ind
Robatel & Mulatier	59 A 69 Rue Barsban, Lyon, France	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Sauereisen Cements Co.	1045 N Canal St. Pittsburgh 15	Pa
Silicones Div. UCC	270 Park Ave. New York 17	NY
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St. Milwaukee 1	Wis
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Southern Corp.	Box 810, Charleston	SC
Spectracoat, Inc.	248 Harbor Blvd. Belmont	Cal
Stonhard Co. Inc.	401 N Broad St. Philadelphia	Pa
Thermal Refractories Corp.	4501 Dell Ave. North Bergen	NJ
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
U. S. STONEWARE CO. Adv Pg 79	**Akron 9**	**Ohio**
Walsco Electronics Mfg. Co. Div. Textron, Inc.	400 S Wyman St. Rockford	Ill
Zirconium Corp. of America	31506-B Solon Rd. Solon 39	Ohio

COATINGS—PROTECTIVE, REMOVABLE

Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Amercoat Corp.	4809 Firestone Blvd. South Gate	Cal
American Products Mfg. Co. Inc.	8127-33 Oleander St. New Orleans 18	La
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bart Mfg. Corp.	135 Manchester Pl. Newark 4	NJ
CARBOLINE CO. Adv Pg 252	**32 Hanley Ind. Ct. St. Louis 17**	**Mo**
Chemical Development Corp.	Endicott St. Danvers	Mass
Chicago Transparent Bag Co.	4806 W Chicago Ave. Chicago 51	Ill
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
Dearborn Chemical Co.	Merch. Mart Plaza, Chicago 54	Ill
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Eagle-Picher Co.	American Bldg. Cincinnati	Ohio
Emerson & Cuming, Inc.	59 Walpole St. Canton	Mass
Esso Standard Div. Humble Oil & Ref Co.	15 W 51st St. New York 19	NY
Glesener Co., A. J.	975 Bryant St. San Francisco 3	Cal
Humble Oil & Ref Co. Humble Div.	Box 2180, Houston 1	Tex
Keuffel & Esser Co.	300 Adams St. Hoboken	NJ
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	**St. Louis**	**Mich**
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
Morningstar Paisley, Inc.	630 W 51st St. New York 19	NY
Nuclear Metals, Inc.	Box 222 Concord	Mass
Oakite Products, Inc.	19 Rector St. New York 6	NY
Pennsalt Chemicals Corp.	3 Penn Center, Philadelphia 2	Pa
Polymer Corp.	2120 Fairmont Ave. Reading	Pa
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Spectracoat, Inc.	248 Harbor Blvd. Belmont	Cal
TURCO PRODUCTS, INC. Adv Pg 260	**Box 1055, Wilmington**	**Cal**
Walsco Electronics Mfg. Co. Div. Textron, Inc.	400 S Wyman St. Rockford	Ill
Zophar Mills, Inc.	112-130 26 St. Brooklyn 32	NY

COINCIDENCE & ANTICOINCIDENCE ANALYZERS
See ANALYZERS—COINCIDENCE & ANTICOINCIDENCE

COLD TRAPS
See TRAPS

COLORIMETERS

ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	**43 Leon St. Boston 15**	**Mass**
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Beckman Instruments, Inc. Scientific & Process Instruments Div.	2500 Fullerton Rd. Fullerton	Cal
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Consolidated Engines & Machy Co. Ltd.	5645 Pare St. Mt. Royal, Montreal, Can	
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Epic, Inc.	150 Nassau St. New York 38	NY
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Instrument Development Labs. Inc.	67 Mechanic St. Attleboro	Mass
Librascope Div. Gen Precision, Inc.	Glendale 1	Cal
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Maple 8	Minn
National Spectrographic Lab. Inc.	6300 Euclid Ave. Cleveland 3	Ohio

SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Schueler & Co.	75 Cliff St. New York 38	NY
Special Instruments Lab, Inc.	312 W Vine Ave. Knoxville 02	Tenn
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Will Corp.	Box 1050, Rochester 3	NY

COLUMNS—ABSORPTION

American Agile Corp.	Box 168, Bedford	Ohio
AVERY & SAUL CO. Adv Pg 8	115 Rindge Ave. Cambridge	Mass
Avondale Shipyards, Inc.	Box 1030, New Orleans 8	La
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Cochran & Co. Annan, Ltd.	34 Victoria St. London SW1, England	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Corning Glass Works	Corning	NY
Downington Iron Works, Inc.	Wallace Ave. Downington	Pa
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
GENERAL AMERICAN TRANSPORTATION CORP. Adv Pg 58	135 S LaSalle St. Chicago 3	Ill
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. Adv Pg 106	4809 Tod Ave. East Chicago	Ind
GREAT LAKES CARBON CORP. Adv Pg 31	18 E 48th St. New York	NY
Harvey & Co. (London) Ltd., G. A.	Woolwich Rd. London, SE7, England	
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
KELLEY & CO., O. G. Adv Pg 30	98 Taylor St. Boston 22	Mass
Kinney, Inc., A. M.	2912 Vernon Pl. Cincinnati 19	Ohio
Knight Co., Maurice A.	Box 111, Akron 9	Ohio
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
NATIONAL CARBON CO. DIV. UCC, Adv. Pg. 4th Cover	270 Park Ave. New York 17	NY
National Tank & Boiler Co.	7210 Polson Ln. St. Louis	Mo
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
Packed Column Corp.	30 Church St. New York 7	NY
Pfaudler Co. Div. Pfaudler Permutit Inc.	1000 West Ave. Rochester 3	NY
PHOENIX-RHEINROHR AG, Adv Pg 276K	August-Thyssen-Str. 1, Dusseldorf, Ger	
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Radiation Products, Inc.	Pt. 40 Rd. Flushing 52	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Steels Engrg. Installations Ltd.	Sunderland, Durham, England	
Struthers Wells Corp.	Warren	Pa
Sun Shipbuilding & Dry Dock Co.	Foot of Morton Ave. Chester	Pa
Thompson, Ltd., John	Wolverhampton, England	
U. S. STONEWARE CO. Adv Pg 79	Akron 9	Ohio
Vulcan Mfg.	Box 22, Cincinnati 15	Ohio
Will Corp.	Box 1050, Rochester 3	NY
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

COLUMNS—DISTILLING, FRACTIONATING, ETC.

American Agile Corp.	Box 168, Bedford	Ohio
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
AVERY & SAUL CO. Adv Pg 8	115 Rindge Ave. Cambridge	Mass
Avondale Shipyards, Inc.	Box 1030, New Orleans 8	La
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Bleiwerk Goslar GmbH.	Goslar, Germany	
Blickman, Inc., S.	7900 Gregory Ave. Weehawken	NJ
Boucher & Co. Ltd.	Pike Mills, Green St. Kidderminster, Worcester, England	
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Cochran & Co. Annan, Ltd.	34 Victoria St. London SW1, England	
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Corning Glass Works	Corning	NY
Downington Iron Works, Inc.	Wallace Ave. Downington	Pa
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can.	
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
GENERAL AMERICAN TRANSPORTATION CORP. Adv Pg 58	135 S LaSalle St. Chicago 3	Ill
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. Adv Pg 106	4809 Tod Ave. East Chicago	Ind
Harvey & Co. (London) Ltd., G. A.	Woolwich Rd. London, SE7, England	
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
International Shielding Industries	Foot of West St. Wilmington	Del
KELLEY & CO., O. G. Adv Pg 30	98 Taylor St. Boston 22	Mass
Kinney, Inc., A. M.	2912 Vernon Pl. Cincinnati 19	Ohio
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
Motherwell Bridge & Engrg. Co. Ltd.	Box 4, Motherwell, Scotland	
NATIONAL CARBON CO. DIV. UCC, Adv. Pg. 4th Cover	270 Park Ave. New York 17	NY
National Tank & Boiler Co.	7210 Polson Ln. St. Louis	Mo
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
Packed Column Corp.	30 Church St. New York 7	NY
Pfaudler Co. Div. Pfaudler Permutit Inc.	1000 West Ave. Rochester 3	NY
PHOENIX-RHEINROHR AG, Adv Pg 276K	August-Thyssen-Str. 1, Dusseldorf, Ger	
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Podbielniak Inc.	341 E Ohio St. Chicago 11	Ill
Radiation Products, Inc.	Pt. 40 Rd. Flushing 52	NY
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr. Bloomfield	NJ
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
Steel & Alloy Tank Co.	Pr. Bessemer St. Newark 5	NJ
Steels Engrg. Installations Ltd.	Sunderland, Durham, England	
Struthers Wells Corp.	Warren	Pa
Sun Shipbuilding & Dry Dock Co.	Foot of Morton Ave. Chester	Pa
Superior Air Products Co.	132 Malvern St. Newark 5	NJ
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Thompson, Ltd., John	Wolverhampton, England	
U. S. STONEWARE CO. Adv Pg 79	Akron 9	Ohio
Vulcan Mfg.	Box 22, Cincinnati 15	Ohio
Will Corp.	Box 1050, Rochester 3	NY
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

COLUMNS—ION-EXCHANGE

See ION-EXCHANGE EQUIPMENT
RESINS—ION-EXCHANGE

COLUMNS—SOLVENT-EXTRACTION

American Agile Corp.	Box 168, Bedford	Ohio
AVERY & SAUL CO. Adv Pg 8	115 Rindge Ave. Cambridge	Mass
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Chemical Separations Corp.	Box 1031, Oak Ridge	Tenn
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Cochran & Co. Annan, Ltd.	34 Victoria St. London SW1, England	
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Downington Iron Works, Inc.	Wallace Ave. Downington	Pa
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
GENERAL AMERICAN TRANSPORTATION CORP. Adv Pg 58	135 S LaSalle St. Chicago 3	Ill
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. Adv Pg 106	4809 Tod Ave. East Chicago	Ind
KELLEY & CO., O. G. Adv Pg 30	98 Taylor St. Boston 22	Mass
Kinney, Inc., A. M.	2912 Vernon Pl. Cincinnati 19	Ohio
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
Nukem, GmbH	Wolfgang bei Hanau/Main, Germany	
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
PHOENIX-RHEINROHR AG, Adv Pg 276K	August-Thyssen-Str. 1, Dusseldorf, Ger	
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Podbielniak Inc.	341 E Ohio St. Chicago 11	Ill
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Schleicher & Schuell Co., Carl	Keene 8	NH
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr. Bloomfield	NJ
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
Steels Engrg. Installations Ltd.	Sunderland, Durham, England	
Struthers Wells Corp.	Warren	Pa
Vulcan Mfg.	Box 22, Cincinnati 15	Ohio
Will Corp.	Box 1050, Rochester 3	NY

COMMUNICATION SYSTEMS

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Allied Radio Corp.	100 N Western Ave, Chicago 80	Ill
Alden Electronic & Impulse Recording Equip. Co.	Westboro	Mass
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
Automatic Electric Sales Corp.	Northlake	Ill
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Crosby-Teletronics Corp.	54 Kinkel St. Westbury	NY
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
E. M. L.-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
Electronic Communications, Inc.	1501 72nd St. N, St. Petersburg	Fla
Feiler Engineering & Mfg. Co.	8026 N Monticello Ave. Skokie	Ill
Ferranti-Packard Electric Ltd.	Industry St. Toronto 15, Ontario, Canada	
General Electric Co. Commun. Prods. Dept.	Lynchburg	Va
Hogan Faximile Corp. Sub. Telautograph Corp.	636 Greenwich St. New York 14	NY
Johnson Co., E. F.	Waseca	Minn
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Lenkurt Electric Co.	1105 County Rd. San Carlos	Cal
Litton Industries	336 N Foothill Rd, Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Manson Laboratories, Inc.	375 Fairfield Ave. Stamford	Conn
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
Nems Clarke Co. Div. Vitro Corp. of America	919 Jesup-Blair Dr. Silver Spring	Md
Patterson Moos Research Div. Lessons Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS. Adv Pg 70	Front & Cooper Sts. Camden 2	NJ
Raytheon Co. Equipment Div.	1089 Washington St. West Newton	Mass
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Trak Electronics Co. Div. CGS Labs. Inc.	Wilton	Conn
Varo Mfg. Co. Inc.	2201 Walnut St. Garland	Tex
Victor Adding Machine Co.	3900 N Rockwell St. Chicago 18	Ill
Wheeler Electronic Corp.	150 E Aurora St, Waterbury 20	Conn
Wheelock Signals, Inc.	273 Branchport Ave. Long Branch	NJ
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

COMPOUNDS—LABELED
See ISOTOPE-LABELED COMPOUNDS

COMPRESSORS—AIR & GAS

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Advanced Instruments, Inc.	45N Kenneth St. Newton Highlands 61	Mass
Air-Shields, Inc.	Hatboro	Pa
Aircraft Ground Equipment	160 Blackwarth Rd. Bristol, Eng.	
ALLIS-CHALMERS MFG. CO. Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
American-Standard Industrial Div.	Detroit 32	Mich
Autoclave Engineers, Inc.	2930 W 22 St. Erie	Pa
Beach-Russ Co.	420 Lexington Ave. New York 17	NY
Bristol Siddeley Engines, Ltd.	Mercury House, Knightsbridge, London SW7, England	
Cooper-Bessemer Corp	Mount Vernon	Ohio
Cornelius Co. Aero Div.	550 39 Ave. NE, Minneapolis 21	Minn
Dayton Electric Mfg. Co.	126 S Oakley Blvd. Chicago 12	Ill
De Vilbiss Co.	300 Phillips Ave. Toledo 1	Ohio
Dunham-Bush, Inc.	179 South St, West Hartford 10	Conn
Electro-Nucleonics Inc.	Box 707, Caldwell	NJ
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
Gast Mfg. Corp.	Box 117-M, Benton Harbor	Mich
Gelman Instrument Co.	106 N Main St. Chelsea	Mich
GENERAL AMERICAN TRANSPORTATION CORP. Adv Pg 58	135 S LaSalle St. Chicago 3	Ill
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	
Glesener Co., A. J.	975 Bryant St. San Francisco 3	Cal
Hamworthy Engineering Ltd.	Poole, Dorset, England	
Haskell Engineering Co.	1236 S Central Ave. Glendale 4	Cal
Ingersoll-Rand Co.	11 Broadway, New York 4	NY
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
Johnson Service Co.	Milwaukee 1	Wis
Joy Mfg. Co. Industrial Div.	H. W. Oliver Bldg. Pittsburgh 22	Pa
Kahlenberg Bros. Co.	12th & Monroe Sts. Two Rivers	Wis
Mico Instrument Co.	80 Trowbridge St. Cambridge 38	Mass
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
Nash Engineering Co.	450 Wilson Rd. S Norwalk	Conn
Nordberg Mfg. Co.	3073 S Chase Ave. Milwaukee	Wis
Northey Rotary Compressors Ltd.	Alder Rd. Parkstone, Poole, Dorset, Eng	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Quincy Compressor Co.	217 Maine St. Quincy	Ill
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
Roots-Connersville Blower Div. Dresser Industries, Inc.	900 W Mount St. Connersville	Ind
Selas Corp. of America	Dresher	Pa
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Sulzer Bros.	Winterthur, Switzerland	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Turbocraft Inc.	492 E Union St. Pasadena	Cal
Waukee Engineering Co. Inc.	5138 N 35th St. Milwaukee 9	Wis
WESTINGHOUSE ELEC CORP. ATOMIC EQUIP. DEPT. Adv. Pgs. 138, 139, 142, 143	Cheswick	Pa
Westinghouse Elec Corp. Sturtevant Div.	Boston 36	Mass
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal
Whittaker Hall & Co. (1929) Ltd.	Radcliffe, Manchester, England	
Wilson (Aberdeen) Ltd. Alexander	Ashgrove Rd. Eng. Wks. Aberdeen, Scot	
WORTHINGTON CORP. Adv. Pgs. 22, 23	401 Worthington Ave. Harrison	NJ
York Corp.	Grantley Rd, York	Pa

COMPUTER ACCESSORIES

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Autonetics Div. North Amer. Aviation	9150 E Imperial, Downey	Cal
Beck's Inc.	298-300 E 5th St. St. Paul 1	Minn
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Bryans Aeroquipment Ltd.	Willow Ln. Mitcham, Surrey, England	
Burroughs Corp.	Detroit 32	Mich
Colorado Research Corp.	Broomfield	Colo
Computer Control Co. Inc.	983 Concord St. Framingham	Mass
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Computer Systems Inc.	Culver Rd. Monmouth Junction	NJ
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Deltime, Inc.	139 Hoyt St. Mamaroneck	NY
Dian Laboratories, Inc.	611 Broadway, New York 12	NY
Djeco Div. Djordjevic Engg. Co.	1933 N Damen, Chicago 47	Ill
E. M. L.-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
E.M.I. ELECTRONICS LTD. Adv Pg 96	Hayes, Middlesex, England	
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
ELECTRONIC ASSOCIATES, INC. Adv Pg 55	Long Branch	NJ
Electronic Systems Development Corp.	1484 E Main St. Ventura	Cal
Epsco, Inc.	275 Massachusetts Ave. Cambridge 39	Mass
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
EX-CELL-O CORP. Adv. Pgs. 42, 63	1200 Oakman Blvd. Detroit 32	Mich
HARVEY WELLS ELECTRONICS, INC. Adv Pg 6	14 Huron Dr. Natick	Mass
Holley Carburetor Co.	11955 E 9 Mile Rd, Warren	Mich
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Hydel, Inc.	223 Crescent St. Waltham 54	Mass
Indiana General Corp.	405 Elm St. Valparaiso	Ind
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	1150 McBride Ave. Little Falls	NJ
Kellogg Switchboard & Supply Co.	6650 S Cicero Ave. Chicago 38	Ill
Laboratory for Electronics, Inc.	1079 Commonwealth Ave. Boston	Mass
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
LEACH CORP. Adv Pg 253	18435 Susana Rd. Compton	Cal
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Librascope Div. Gen Precision, Inc.	Glendale 1	Cal
Lintronic Ltd.	47 CharingCross Rd. London, WC2, Eng	
Litton Industries	336 N Foothill Rd. Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Miles Electronics Ltd.	Shoreham Arpt. Shoreham, Sussex, Eng	
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Navigation Computer Corp.	1621 Snyder Ave. Philadelphia 45	Pa
New Electronic Products Ltd.	360 Kennington Rd. London, SE11, Eng	
Newman Industries Ltd.	Yate, Bristol, England	
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS. Adv Pg 70	Front & Cooper Sts. Camden 2	NJ
Ransom Research	Box 269, San Pedro	Cal
Rese Engineering, Inc.	731 Arch St. Philadelphia 6	Pa
Short Bros & Harland Ltd.	Queens Island, Belfast, Ireland	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
Telemeter Magnetics Inc.	Box 329, Culver City	Cal

TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TOKYO SHIBAURA ELECTRIC CO., LTD.		
Adv Pg 276D	12 Yurku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Victor Adding Machine Co.	3900 N Rockwell St. Chicago 18	Ill

COMPUTER SERVICES

See SERVICES: COMPUTER

COMPUTERS—ANALOG

A. E. I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Acme Electric Corp.	31 Water St. Cuba	NY
Airmec, Ltd.	High Wycombe, Bucks, England	
Allegany Instrument Co, Inc.	1091 Wills Mountain, Cumberland	Md
American Bosch Arma Corp.	320 Fulton Ave. Hempstead	NY
Applied Dynamics Inc. Sub. Bowmar Instrument Corp.	Ann Arbor	Mich
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI		
Adv Pg 276AA	Charleroi, Belgium	
Autonetics Div. North Amer. Aviation	9150 E Imperial, Downey	Cal
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co, Ltd.	5010 St. Catherine St. W. Montreal, Que Can	
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Bowmar Instrument Corp.	8000 Bluffton Rd. Fort Wayne	Ind
Burr-Brown Res. Corp.	Box 6444, Tucson	Ariz
Canadian Applied Research Ltd.	750 Lawrence Ave. W, Toronto 19, Ont Can	
Canadian Westinghouse Co, Ltd.	Box 510, Hamilton, Ontario, Canada	
Colorado Research Corp.	Broomfield	Colo
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Computer Systems Inc.	Culver Rd. Monmouth Junction	NJ
Curtiss-Wright Corp. Electronics Div.	35 Market St. East Paterson	NJ
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 110, Princeton	NJ
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Deltron, Inc.	4th & Cambria Sts. Philadelphia 33	Pa
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
Dian Laboratories, Inc.	611 Broadway, New York 12	NY
Djeco Div. Djordjevic Engng. Co.	1933 N Damen, Chicago 47	Ill
E. M. I. ELECTRONICS LTD. Adv Pg 96	Hayes, Middlesex, England	
Electro-Scientific Industries	7524 SW Macadam Ave, Portland	Ore
ELECTRONIC ASSOCIATES, INC.		
Adv Pg 55	Long Branch	NJ
Electronic Systems Development Corp.	1484 E Main St. Ventura	Cal
English Electric Co, Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Epsco, Inc.	275 Massachusetts Ave. Cambridge 39	Mass
Feedback, Ltd.	1 The Broadway, Crowborough, Sussex, Eng	
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Electric Co. Computer Div.	13430 N Black Canyon Hwy. Phoenix	Ariz
GENERAL MILLS, INC. NUCLEAR EQPT. DEPT. MECH. DIV.		
Adv. Pgs. 16, 17	419 N 5th St. Minneapolis 1	Minn
Graflex, Inc.	3750 Monroe Ave, Rochester 3	NY
Hawker Siddeley Nuclear Power Co, Ltd.	Sutton Ln, Langley, Nr. Slough, Bucks	Eng
Heath Co.	Benton Harbor	Mich
Honeywell Controls, Ltd.	Vanderhoof Ave, Toronto, Ont Canada	
KEARFOTT DIV. GEN. PRECISION, INC.		
Adv Pg 265	1150 McBride Ave. Little Falls	NJ
Laboratory for Electronics, Inc.	1079 Commonwealth Ave. Boston	Mass
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
LEACH CORP. Adv Pg 233	18435 Susana Rd. Compton	Cal
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Librascope Div. Gen Precision, Inc.	Glendale 1	Cal
Link Div. - Gen. Precision, Inc.	Binghamton	NY
Litton Industries	336 N Foothill Rd. Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Magnetic Amplifiers Div. Siegler Corp.	632 Tinton Ave. New York 55	NY
Metrix Instruments Ltd.	54 Victoria Rd, Surbiton, Surrey, Eng	
Miles Electronics Ltd.	Shoreham Arpt. Shoreham, Sussex, Eng	
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Model Engineering & Mfg. Inc.	50 Frederick St. Huntington	Ind
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Newman Industries Ltd.	Yate, Bristol, England	
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Philbrick Researches, Inc., G. A.	127 Clarendon St. Boston 16	Mass
Potter Aeronautical Corp.	Route #22, Union	NJ
Prazisionsmessgerate RSV	13b Hichendorf/Pilsensee, Germany	
Precision Mechanisms Corp.	577 Newbridge Ave. East Meadow	NY
Raytheon Co. Equipment Div.	1089 Washington St. West Newton	Mass
Reeves Instrument Corp.	E Gate Blvd. Garden City	NY
Servomechanisms Inc.	200 Aviation Blvd. El Segundo	Cal
Short Bros & Harland Ltd.	Queens Island, Belfast, Ireland	
Solartron Electronic Group Ltd.	Victoria Rd, Farnborough, Hants, Eng	
Sperry Gyroscope Co. Div. Sperry Rand Corp.	Great Neck	NY
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Systron-Donner Corp.	950 Galindo St. Concord	Cal
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Texas Instruments Incorporated, Geosciences & Instrumentation Div.	3609 Buffalo Speedway, Houston 6	Tex
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
TOKYO SHIBAURA ELECTRIC CO., LTD.		
Adv Pg 276D	12 Yurku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Waltham Electronics Corp.	751 Main St. Waltham	Mass
Westinghouse Elec Corp, Pwr Control & Comm Dept.	East Pittsburgh	Pa

COMPUTERS—DIGITAL

A. E. I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Acme Electric Corp.	31 Water St. Cuba	NY
Acoustica Associates Inc.	5305 W 102 St, Los Angeles 45	Cal
American Bosch Arma Corp.	320 Fulton Ave. Hempstead	NY
Autonetics Div. North Amer. Aviation	9150 E Imperial, Downey	Cal
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. Bendix Computer Div.	5630 Arbor Vitae St. Los Angeles 45	Cal
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Burroughs Corp.	Detroit 32	Mich
Canadian Westinghouse Co, Ltd.	Box 510, Hamilton, Ontario, Canada	
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Computer Control Co. Inc.	983 Concord St. Framingham	Mass
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Control Data Corp. Computer Div.	501 Park Ave. Minneapolis 15	Minn
Curtiss-Wright Corp. Electronics Div.	35 Market St. East Paterson	NJ
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Deltron, Inc.	4th & Cambria Sts. Philadelphia 33	Pa
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
Digital Equipment Corp.	Maynard	Mass
Djeco Div. Djordjevic Engng. Co.	1933 N Damen, Chicago 47	Ill
E. M. L-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. Adv Pg 96	Hayes, Middlesex, England	
Electronic Systems Development Corp.	1484 E Main St. Ventura	Cal
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Epsco, Inc.	275 Massachusetts Ave. Cambridge 39	Mass
Epsco Inc. Components Div.	275 Massachusetts Ave. Cambridge 39	Mass
Ferranti Electric, Inc.	30 Rockefeller Pl. New York 20	NY
Ferranti-Packard Electric Ltd.	Industry St, Toronto 15, Ontario, Canada	
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Garrett Corp.	9851 Sepulveda Blvd, L A 45	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Electric Co. Computer Div.	13430 N Black Canyon Hwy. Phoenix	Ariz
Graflex, Inc.	3750 Monroe Ave, Rochester 3	NY
HARVEY WELLS ELECTRONICS, INC.		
Adv Pg 6	14 Huron Dr. Natick	Mass
Hermes Electronics Co.	75 Cambridge Pkwy. Cambridge 42	Mass
Honeywell Controls, Ltd.	Vanderhoof Ave, Toronto, Ont Canada	
Honeywell Electronic Data Processing Div	60 Walnut St. Wellesley Hills 81	Mass
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
Laboratory for Electronics, Inc.	1079 Commonwealth Ave. Boston	Mass
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Librascope Div. Gen Precision, Inc.	Glendale 1	Cal
Link Div. - Gen. Precision, Inc.	Binghamton	NY
Litton Industries	336 N Foothill Rd. Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Magnetic Amplifiers Div. Siegler Corp.	632 Tinton Ave. New York 55	NY
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Model Engineering & Mfg. Inc.	50 Frederick St. Huntington	Ind
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
Nash & Harrison Ltd.	1355 Wellington St. Ottawa, Canada	
National Cash Register Co.	Main & K Sts. Dayton	Ohio
Navigation Computer Corp.	1621 Snyder Ave. Philadelphia 45	Pa
Newman Industries Ltd.	Yate, Bristol, England	
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa

Potter Aeronautical Corp.	Route #22, Union	NJ
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS.		
Adv Pg 70	**Front & Cooper Sts. Camden 2**	**NJ**
Raytheon Co. Equipment Div.	1089 Washington St. West Newton	Mass
Royal McBee Corp.	Westchester Ave. Port Chester	NY
Servomechanisms Inc.	200 Aviation Blvd. El Segundo	Cal
Sperry Gyroscope Co. Div. Sperry Rand Corp.	Great Neck	NY
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Systron-Donner Corp.	950 Galindo St. Concord	Cal
TECHNICAL MEASUREMENT CORP.		
Adv Pg 215	**441 Washington Ave. North Haven**	**Conn**
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
Thompson-Ramo-Wooldridge Products Co	202 N Canon Dr. Beverly Hills	Cal
TOKYO SHIBAURA ELECTRIC CO., LTD.	**12 Yuraku-cho 1-Chome, Chiyoda-ku,**	
Adv Pg 276D	**Tokyo, Japan**	
Trak Electronics Co. Div. CGS Labs. Inc.	Wilton	Conn
Victor Adding Machine Co.	3900 N Rockwell St. Chicago 18	Ill
Waltham Electronics Corp.	751 Main St. Waltham	Mass
Wang Laboratories	12 Huron Dr. Natick	Mass
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa
Westinghouse Elec Corp. Pwr Control & Comm Dept.	East Pittsburgh	Pa

CONCRETE—SHIELDING
See SHIELDING—RADIATION

CONDENSERS—ELECTRICAL
See CAPACITORS

CONDENSERS—POWER-PLANT

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	**935 S 70th St. Milwaukee 1**	**Wis**
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
American-Standard Industrial Div.	Detroit 32	Mich
Armstrong Co., Richard M.	Box 566, West Chester	Pa
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Croll-Reynolds Engineering Co.	1122 Main St. Stamford	Conn
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
FOSTER WHEELER CORP. Adv Pg 7	**666 5th Ave. New York 19**	**NY**
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can.	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Graham Mfg. Co., Inc.	170 Great Neck Rd, Great Neck	NY
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Ingersoll-Rand Co.	11 Broadway, New York 4	NY
Lasker Boiler & Engineering Corp.	3201 S Wolcott Ave. Chicago 8	Ill
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Nooter Corp.	1424 S 3rd St. St Louis 66	Mo
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
Societe Fives-Penhoet	340 rue Saint-Honore, Paris 1, France	
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
Tube Reducing Corp.	520 Main Ave. Wallington	NJ
Westinghouse Elec Corp. Steam Div.	Lester	Pa
Wheeler Mfg. Co. C. H.	1850 Sedgley Ave. Philadelphia 32	Pa
WORTHINGTON CORP. Adv. Pgs. 22, 23	**401 Worthington Ave. Harrison**	**NJ**
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

CONDENSERS—PROCESS

ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
American-Standard Industrial Div.	Detroit 32	Mich
Armstrong Co., Richard M.	Box 566, West Chester	Pa
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Croll-Reynolds Engineering Co.	1122 Main St. Stamford	Conn
Downington Iron Works, Inc.	Wallace Ave. Downington	Pa
Fansteel Metallurgical Corp.	North Chicago	Ill
FOSTER WHEELER CORP. Adv Pg 7	**666 5th Ave. New York 19**	**NY**
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can.	
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Graham Mfg. Co., Inc.	170 Great Neck Rd, Great Neck	NY
GRISCOM-RUSSELL CO. Adv Pg 217	**Massillon**	**Ohio**
KELLEY & CO., O. G. Adv Pg 30	**98 Taylor St. Boston 22**	**Mass**
Leader Iron Works, Inc.	2110 N Jasper St. Decatur	Ill
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
NATIONAL CARBON CO. DIV. UCC,		
Adv. Pg. 4th Cover	**270 Park Ave. New York 17**	**NY**
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St. Milwaukee 1	Wis
Societe Fives-Penhoet	340 rue Saint-Honore, Paris 1, France	
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
STOKES CORP., F. J. Adv Pg 85	**5500 Tabor Rd. Philadelphia 20**	**Pa**
Tube Reducing Corp.	520 Main Ave. Wallington	NJ
Vulcan Mfg.	Box 22, Cincinnati 15	Ohio
Westinghouse Elec Corp. Steam Div.	Lester	Pa
York Corp.	Grantley Rd. York	Pa
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

CONNECTORS—ELECTRICAL

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Alden Products Co.	118D N Main St. Brockton	Mass
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
AMP Inc.	Eisenhower Blvd. Harrisburg	Pa
Amphenol Connector Div. Amphenol-Borg	1830 S 54th Ave. Chicago 50	Ill
ANTON ELECTRONIC LABS. INC.		
Adv Pg 261	**1226-38 Flushing Ave. Brooklyn 37**	**NY**
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Barnes Development Co.	213 W Baltimore Pike, Lansdowne	Pa
Burndept Ltd.	West St. Erith, Kent, Eng	
CWC Equipment Ltd.	Kings Gr. Maidenhead, Berks, Eng	
Cannon Electric Canada Ltd.	160 Bartley Dr. Toronto 16, Ontario	
Cannon Electric Co.	3208 Humboldt St. Los Angeles 31	Cal
Cole Electric Co.	8439 Stellar Dr. Culver City	Cal
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Continental Connector Corp.	34-63 56th St. Woodside 77	NY
Crouse-Hinds Co. of Canada Ltd.	1160 Birchmount Rd. Scarborough, Toronto, Ontario, Canada	
Cryogenerators Inc.	Ashton	RI
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Garde Mfg. Co.	53 John St. Cumberland	RI
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	**Erith, Kent, England**	
General Radio Co.	West Concord	Mass
Harco Laboratories, Inc.	77 Olive St. New Haven	Conn
Johnson Co., E. F.	Waseca	Minn
Methode Mfg. Corp.	7447 W Wilson Ave. Chicago 31	Ill
Nugent Electronics Co. Inc.	802 E 8th St. New Albany	Ind
Omaton Div. Burndy Corp.	Norwalk	Conn
On Mark Couplings	4440 York Blvd. Los Angeles 41	Cal
PHYSICAL SCIENCES CORP. Adv Pg 263	**389 N Fair Oaks, Pasadena**	**Cal**
RF Products Div. Amphenol-Borg	33 E Franklin, Danbury	Conn
Scintilla Div. Bendix Corp.	Sidney	NY
Sealtron Corp.	Reading Rd. At Amity, Cincinnati 15	Ohio
Spinner Elektro-phys Gerate GmbH, Georg	Erzgiessereistr. 33, Munich 2, W Ger	
Superior Electric Co., The	83 Laurel St. Bristol	Conn
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
Walsco Electronics Mfg. Co. Div. Textron, Inc.	400 S Wyman St. Rockford	Ill
Winchester Electronics Inc.	19 Willard Rd. Norwalk	Conn

CONSOLES, CABINETS & PANELS

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
Ad-Yu Electronics Lab. Inc.	249 Terhune Ave. Passaic	NJ
Aircraft Ground Equipment	160 Blackswarth Rd. Bristol, Eng.	
Alden Products Co.	118D N Main St. Brockton	Mass
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Allis Co., Louis	427 E Stewart St. Milwaukee 7	Wis
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
Amco Engineering Co.	7333 Ainslie St. Chicago 31	Ill
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	**Charleroi, Belgium**	
Atkins & Merrill, Inc.	Post Rd. South Sudbury	Mass
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que	Can
Bailey Meters & Controls Ltd.	Purley Way, Croydon, Surrey, England	
Barnes Co., W. F. & John	301 S Water St. Rockford	Ill
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Breeze Corps. Inc.	700 Liberty Ave. Union	NJ

Bud Radio, Inc.	2118 E 55 St. Cleveland 3	Ohio
Canadian Westinghouse Co, Ltd.	Box 510, Hamilton, Ontario, Canada	
Clark Controller Co.	1146 E 152 St. Cleveland 10	Ohio
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Devco Engineering Inc. Control Systems Div.	Pier Lane W, Caldwell	NJ
DUBLIN INDUSTRIES, INC. Adv Pg 258	**11824 Dublin Blvd. Hayward**	**Cal**
Dynatron Radio Ltd.	St. Peter's Rd. Furze Platt, Maidenhead, Berks, Eng	
Eberline Instrument Corp.	Box 279, Santa Fe	NM
Electroflo Meters Co, Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Energy Control Co., Inc.	5 Beekman St, New York 38	NY
Epsco Inc. Components Div.	275 Massachusetts Ave. Cambridge 39	Mass
Foxboro Co.	38 Neponset Ave, Foxboro	Mass
Geipel Ltd., William, Vulcan Wks.	156/170 Bermondsey St. London, SE1, Eng	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	**Box 1346, Pittsburgh 30**	**Pa**
Hawker Siddeley Nuclear Power Co, Ltd.	Sutton Ln, Langley, Nr. Slough, Bucks	Eng
Hydel, Inc.	223 Crescent St, Waltham 54	Mass
Imhof Ltd., Alfred	112-116 New Oxford St, London, WC1, Eng	
Integra, Leeds & Northrup Ltd.	Broad St, Birmingham 15, England	
Interstate Electronics Corp.	707 E Vermont Ave, Anaheim	Cal
Johnson Service Co.	Milwaukee 1	Wis
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	**1150 McBride Ave. Little Falls**	**NJ**
Kellogg Switchboard & Supply Co.	6650 S Cicero Ave. Chicago 38	Ill
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Koontz-Wagner Electric Co.	N Michigan & Merion, South Bend	Ind
LEACH CORP. Adv Pg 253	**18435 Susana Rd. Compton**	**Cal**
Lignostone Import Co.	Box 65, Gracie Sta. NY 28	NY
Magnetics, Inc.	Box 391, Butler	Pa
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Minn-Honeywell Reg Co, Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Morfax Ltd.	Willow Ln, Mitcham, Surrey, England	
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Panellit Div. ISI Inc.	7401 N Hamlin Ave. Skokie	Ill
Phillips & Boson Ltd.	Railway Terr, Fletham, Middx, England	
PICKER X-RAY CORP. Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Planchets	Box 216 Chelsea	Mich
Premier Metal Products Co.	337 Manida St, Bronx 59	NY
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Radio City Products Co.	Centre & Glendale Rds. Easton	Pa
Reetz Co., Robert C.	81 Montgomery St, Pawtucket	RI
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Rimak Electronics Inc.	10929 Vanowen St, No. Hollywood	Cal
Robinson & Co. Ltd., D.	717 London Rd, Hounslow, Middlsx, Eng	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Scott (Electronic Engrg.) Ltd., James	68 Brockville St. Glasgow E2, Scotland	
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Solartron Electronic Group Ltd.	Victoria Rd, Farnborough, Hants, Eng	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TELEFLEX INC. Adv Pg 118	**Church Rd. North Wales**	**Pa**
Teleweld Inc.	11535 Franklin St, Franklin Park	Ill
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23535 Euclid Ave. Cleveland 17**	**Ohio**
THOMSON-HOUSTON (CIE. FRANCAISE), Adv Pg 276B	**173 Blvd. Haussman, Paris 8, France**	
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
United Mfg. Div. W. L. Maxson Corp.	41 Haig St. Hamden 14	Conn
U. S. Controls, Inc.	410 4th Ave. Brooklyn 15	NY
Vacuum Metallurgical Developments, Ltd.	Shelford, Cambridge, England	
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Watson Mfg. Co, Inc.	4800 Taylor St. Jamestown	NY
Western Switchboard Co.	474 Bryant St. San Fran 7	Cal
Westinghouse Elec Corp, Pwr Control & Comm Dept.	East Pittsburgh	Pa

CONSULTING
See SERVICES

CONTAINERS—FUEL-ELEMENT ("COLD")
See Also SHIELDING—RADIATION

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
AMERICAN SMELTING & REFINING CO. Adv Pg 125	**120 Broadway, New York 5**	**NY**
AVERY & SAUL CO. Adv Pg 8	**115 Rindge Ave. Cambridge**	**Mass**
BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St. New York 17**	**NY**
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
EX-CELL-O CORP. Adv. Pgs. 62, 63	**1200 Oakman Blvd. Detroit 32**	**Mich**
Interatom, GmbH.	Bensberg/Koeln, Postfach, Germany	
Kaiser Fleetwings, Inc.	Bristol	Pa
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	**5 New St. White Plains**	**NY**
Nuclear Metals, Inc.	Box 222 Concord	Mass
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Radiation Products, Inc.	Pt. 40 Rd, Flushing 52	NY
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
SUPERIOR TUBE CO., Adv Pg 28	**Box 191, Norristown**	**Pa**
Terrisr-Consolidated Industries	22-24 Wooster St. New York 13	NY
Tube Reducing Corp.	520 Main Ave. Wallington	NJ
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Will Corp.	Box 1050, Rochester 3	NY
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore
Yuba Consolidated Industries, Inc.	1 Bush St, San Francisco 4	Cal

CONTAINERS—PLASTIC

Air-Shields, Inc.	Hatboro	Pa
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Allied Resinous Products, Inc.	Whitney Rd. & Clark St, Conneaut	Ohio
American Agile Corp.	Box 168, Bedford	Ohio
Cadillac Plastic & Chemical Co.	15111 2nd Ave. Detroit 3	Mich
Chicago Transparent Bag Co.	4806 W Chicago Ave. Chicago 51	Ill
Coastwise Marine Disposal Co.	Box 43556, Hyde Park Sta, L A 62	Cal
Conneaut Rubber & Plastic Co. Div. U. S. Stoneware Co.	Box 621, Conneaut	Ohio
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
Lennard Co, Inc., P. M.	1061 E 8th St, Jacksonville 6	Fla
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
Nuclear Engineering Co. Inc.	65 Ray St. Box 218, Pleasanton	Cal
PHOENIX-RHEINROHR AG, Adv Pg 276K	**August-Thyssen-Str. 1, Dusseldorf, Ger**	
Plastimayd Corp.	2204 SE 7th Ave, Portland 14	Ore
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Schueler & Co.	75 Cliff St. New York 38	NY
Snyder Mfg. Co. Inc.	Box 464, New Philadelphia	Ohio
Taylor Fibre Co.	Norristown 40	Pa
Westlake Plastics Co.	W Lenni Rd. Lenni Mills	Pa
Will Corp.	Box 1050, Rochester 3	NY

CONTAINERS—RADIOISOTOPE
See Under SHIELDING—RADIATION

CONTAINMENT STRUCTURES—REACTOR
See Also CALANDRIAS—REACTOR
VESSELS—PRESSURE, REACTOR

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St. New York 17**	**NY**
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	**Dept N B, Philadelphia 42**	**Pa**
BELGONUCLEAIRE, Adv Pg 128	**35 rue des Colonies, Bruxelles 1, Belgium**	
Bethlehem Steel Corp.	701 E 3rd St, Bethlehem	Pa
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. Adv Pg 106	**4809 Tod Ave. East Chicago**	**Ind**
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Interatom, GmbH.	Bensberg/Koeln, Postfach, Germany	
Klockner-Werke AG	Bessementr. 1, Osnabruck, Germany	
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Motherwell Bridge & Engrg. Co. Ltd.	Box 4, Motherwell, Scotland	
Pfaudler Co. Div. Pfaudler Permutit Inc.	1000 West Ave, Rochester 3	NY
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
S. I. A. C. Adv Pg 276T	**Via S. Sebastiano 2, Genoa, Italy**	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal

Steel & Alloy Tank Co.	Ft. Bessemer St. Newark 5	NJ
Sun Shipbuilding & Dry Dock Co.	Foot of Morton Ave. Chester	Pa
Thompson, Ltd., John	Wolverhampton, England	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

CONTROL EQUIPMENT—POWER PLANT
See Also CONTROL SYSTEMS—REACTOR

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Advance Components Ltd.	Roebuck Rd, Hainault, Essex, England	
AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
Air Pollution Control Div. John Wood Co.	Essex Bldg. Bernardsville	NJ
Aircraft Ground Equipment	160 Blackswarth Rd. Bristol, Eng.	
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	Charleroi, Belgium	
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
AUTOMATIC SWITCH CO. Adv Pg 87	56M Hanover Rd. Florham Park	NJ
Automation Products, Inc.	3030 Max Roy St. Houston 24	Tex
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. Bendix Computer Div.	5630 Arbor Vitae St. Los Angeles 45	Cal
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
Black, Sivalls & Bryson, Inc.	7500 E 12 St, Kansas City 26	Mo
Bowmar Instrument Corp.	8000 Bluffton Rd. Fort Wayne	Ind
Bristol Siddeley Engines, Ltd.	Mercury House, Knightsbridge, London SW7, England	
Brown & Associates, Inc., W. A.	Box 286, Indian River City	Fla
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont	Can
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Clark Controller Co.	1146 E 152 St. Cleveland 10	Ohio
Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn
Cooper-Bessemer Corp.	Mount Vernon	Ohio
Coper-Vulcan Div. Blaw-Knox Co.	939 W 26 St. Erie 4	Pa
Crouse-Hinds Co. of Canada Ltd.	1160 Birchmount Rd. Scarborough, Toronto, Ontario, Canada	
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 110, Princeton	NJ
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Devco Engineering Inc. Control Systems Div.	Pier Lane W, Caldwell	NJ
Electro-Mechanical Research, Inc.	Box 3041, Sarasota	Fla
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
English Electric Co. Ltd.	Eng. Elec Hse. Strand, London WC 2	Eng
Ferranti-Packard Electric Ltd.	Industry St. Toronto 15, Ontario, Canada	
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Geipel Ltd., William, Vulcan Wks.	156/170 Bermondsey St. London, SE1, Eng	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Electric Co. Computer Div.	13430 N Black Canyon Hwy. Phoenix	Ariz
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	Erith, Kent, England	
General Regulator Corp. Sub. Foster Wheeler Corp.	666 5th Ave. New York 19	NY
HAGAN CHEMICALS & CONTROLS, INC.		
Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Hays Corp.	Michigan City 40	Ind
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Holley Carburetor Co.	11955 E 9 Mile Rd. Warren	Mich
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Integra, Leeds & Northrup Ltd.	Broad St. Birmingham 15, England	
Intercontinental Dynamics Corp.	170 Coolidge Ave. Englewood	NJ
International Research Associates	5438 W North Ave. Chicago 39	Ill
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
KEITHLEY INSTRUMENTS, INC.		
Adv Pg 234	12415 Euclid Ave. Cleveland 6	Ohio
Kieley & Mueller Co., Inc.	64 Genung St. Middletown	NY
LEACH CORP. Adv Pg 253	18435 Susana Rd. Compton	Cal
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Lintronic Ltd.	47 CharingCross Rd. London, WC2, Eng	
Litton Industries	336 N Foothill Rd. Beverly Hills	Cal
Magnetic Amplifiers Div. Siegler Corp.	632 Tinton Ave. New York 55	NY
Magnetic Research Corp.	3160 W El Segundo Blvd. Hawthorne	Cal
MAGNETROL, INC. Adv Pg 72	2115 S Marshall Blvd. Chicago 23	Ill
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
Muirhead Instruments Inc.	441 Lexington Ave, New York 17	NY
Ovitron Corp.	37-05 48 Ave. Long Island City	NY
Panellit Div. ISI Inc.	7401 N Hamlin Ave. Skokie	Ill
Powertron Ultrasonics Corp.	E Gate Blvd, Garden City	NY
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Robinson & Co. Ltd., D.	717 London Rd. Hounslow, Middlsx. Eng	
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stow Mfg. Co.	355 Shear St. Binghamton	NY
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Superior Electric Co., The	83 Laurel St. Bristol	Conn
Swartwout Div.-Crane Co.	Hooksett Ind. Park, Manchester	NH
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Thompson, Ltd., John	Wolverhampton, England	
THOMSON-HOUSTON (CIE. FRANCAISE),		
Adv Pg 276B	173 Blvd. Haussman, Paris 8, France	
U. S. Controls, Inc.	410 4th Ave. Brooklyn 15	NY
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Water Associates	45 Franklin St. Framingham	Mass
Western Switchboard Co.	474 Bryant St. San Fran 7	Cal
Westinghouse Elec Corp. Pwr Control & Comm Dept.	East Pittsburgh	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

CONTROL MATERIALS—REACTOR
See Specific Element Or Alloy Under METALS, ALLOYS & COMPOUNDS

CONTROL PANELS
See CONSOLES, CABINETS & PANELS

CONTROL-ROD DRIVE SYSTEMS
See Also CONTROL SYSTEMS—REACTOR
INDICATORS—CONTROL-ROD POSITION

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
American Bosch Arma Corp.	320 Fulton Ave. Hempstead	NY
American Welding & Mfg. Co.	555 Dietz Rd. Warren	Ohio
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	Charleroi, Belgium	
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Bristol Siddeley Engines, Ltd.	Mercury House, Knightsbridge, London SW7, England	
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont	Can
Cedar Rapids Engineering Co.	902 17th St. NE, Cedar Rapids	Iowa
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 110, Princeton	NJ
DIAMOND POWER SPECIALTY CORP.		
Adv Pg 132	Box 415 Lancaster	Ohio
Digitran Co. Div. Endevco Corp.	660 S Arroyo Pkwy. Pasadena	Cal
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Fairchild Camera & Instr. Corp. Defense Prods Div.	300 Robbins Ln. Syosset	NY
Ferranti-Packard Electric Ltd.	Industry St. Toronto 15, Ontario, Canada	
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave. LIC 1	NY
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	Erith, Kent, England	
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	

International Research Associates	5438 W North Ave, Chicago 39	Ill
Jerpbak-Bayless Co.	34150 Solon Rd, Solon	Ohio
Jordan Controls Inc.	3235 W Hampton Ave, Milwaukee 9	Wis
Kiffer Tool & Die Inc.	5601 Tillman Ave, Cleveland 2	Ohio
LEACH CORP. Adv Pg 253	**18435 Susana Rd. Compton**	**Cal**
Lear, Inc.	110 Ionia Ave, NW, Grand Rapids	Mich
Magnetic Amplifiers Div. Siegler Corp.	632 Tinton Ave, New York 55	NY
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
Marvel-Schebler Products Div. Borg-Warner Corp.	2195 S Elwin Rd, Decatur	Ill
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Rucker Co.	4700 San Pablo Ave, Emeryville	Cal
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Stromberg-Carlson Div, Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Telechrome Mfg. Corp.	28 Ranick Dr, Amityville	NY
TELEFLEX INC. Adv Pg 118	**Church Rd. North Wales**	**Pa**
Thompson, Ltd., John	Wolverhampton, England	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
THOMSON-HOUSTON (CIE. FRANCAISE), Adv Pg 276B	**173 Blvd. Haussman, Paris 8, France**	
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. Adv. Pgs. 76, 77	**Balch St. Beverly**	**Mass**
Vard	2081 E Colorado, Pasadena	Cal
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
WESTINGHOUSE ELEC CORP. ATOMIC EQUIP. DEPT. Adv. Pgs. 138, 139, 142, 143	**Cheswick**	**Pa**
Westinghouse Elec Corp, Pwr Control & Comm Dept.	East Pittsburgh	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal
Yuba Consolidated Industries, Inc.	1 Bush St, San Francisco 4	Cal

CONTROL ROD DRIVES

1. ELECTROMECHANICAL
2. HYDRAULIC, PNEUMATIC
3. MAGNETIC

AEG, 1, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd, 1	33 Grosvenor Pl, London SW1, Eng	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. 1-2-3, Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
Aero Supply Mfg. Co, Inc. 1-2	Corry	Pa
AEROJET-GENERAL NUCLEONICS, 1-2-3, Adv Pg 119	**Box 77, San Ramon**	**Cal**
Airmatic Valve, Inc. 2	7313 Associate Ave, Cleveland 9	Ohio
Allied Engineering & Production Corp. 2	2421 Blanding Ave, Alameda	Cal
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 1-2-3, Adv Pg 276AA	**Charleroi, Belgium**	
Atomics International Div, NAA, 1-2-3	Box 309, Canoga Park	Cal
AUTOMATIC SWITCH CO. 1-2-3, Adv Pg 87	**56M Hanover Rd. Florham Park**	**NJ**
Avien, Inc. 2	58-15 Northern Blvd. Woodside 77	NY
Bendix Corp. 1	1128 Fisher Bldg, Detroit 2	Mich
CONVAIR, DIV. GEN. DYNAMICS CORP. 1-2-3, Adv Pg 104	**Box 748, Fort Worth**	**Tex**
CURTISS-WRIGHT CORP. PRINCETON DIV. 1, Adv Pg 211	**Box 110, Princeton**	**NJ**
Dalmo Victor Co Div Textron Inc 1-2-3	1515 Industrial Way, Belmont	Cal
DIAMOND POWER SPECIALTY CORP. 1-3, Adv Pg 132	**Box 415 Lancaster**	**Ohio**
EX-CELL-O CORP. 1-2-3, Adv. Pgs. 62, 63	**1200 Oakman Blvd. Detroit 32**	**Mich**
FLIGHT REFUELING INC. 1-2, Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
Ford Instrument Co Div Sperry Rand Corp, 1-2	31-10 Thomson Ave, LIC 1	NY
GAAA, 1-2-3	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. 1-2-3, Adv. Pgs. 212, 276M	**Box 608, San Diego 12**	**Cal**
General Controls Co. 2	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 1-2, Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
GENERAL ELECTRIC CO. LTD. OF ENGLAND, 1, Adv Pg 276BB	**Erith, Kent, England**	
GENERAL MILLS, INC. NUCLEAR EQPT. DEPT. MECH. DIV. 1, Adv. Pgs. 16, 17	**419 N 5th St. Minneapolis 1**	**Minn**
General Regulator Corp, Sub, Foster Wheeler Corp. 1	666 5th Ave, New York 19	NY
Graflex, Inc. 1	3750 Monroe Ave, Rochester 3	NY
Hawker Siddeley Nuclear Power Co Ltd 1	Sutton Ln, Langley, Nr. Slough, Bucks	Eng
Hitachi, Ltd. 1-3	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Instrument & Development Prods Co Inc 1	355 W 109th Pl, Chicago	Ill
Interatom, GmbH, 1	Bensberg/Koeln, Postfach, Germany	
Jerpbak-Bayless Co, 1-2	34150 Solon Rd, Solon	Ohio
Jordan Controls Inc, 1	3235 W Hampton Ave, Milwaukee 9	Wis
KEARFOTT DIV. GEN. PRECISION, INC. 1-2, Adv Pg 269	**1150 McBride Ave. Little Falls**	**NJ**
L. & F. MACHINE CO. 1-2, Adv Pg 238	**2110 Belgrove Ave. Huntington Park**	**Cal**
Leemath, Inc. 1	Oak Dr, Syosset	NY
LINCOLN FOUNDRY CORP. 1-2, Adv Pg 238	**2525 E 49 St. Los Angeles**	**Cal**
Magnetic Research Corp. 3	3160 W El Segundo Blvd, Hawthorne	Cal
Marquardt Corp. 2	16555 Saticoy St, Van Nuys	Cal
Marvel-Schebler Products Div. Borg-Warner Corp. 1-2-3	2195 S Elwin Rd, Decatur	Ill
NUCLEAR DEVELOPMENT CORP. OF AMERICA, 1-3, Adv Pg 32	**5 New St. White Plains**	**NY**
Oster Mfg. Co., John, Avionic Div. 1	1 Main St, Racine	Wis
Parker Aircraft Co. 1-2	5827 W Century Blvd, L A 45	Cal
Process Equipment Co. 2	150 Studebaker Rd. Tipp City	Ohio
Rousseau Controls Ltd. 2	640 Decourcelle St, Montreal, Que. Can.	
Rucker Co. 1-2	4700 San Pablo Ave, Emeryville	Cal
Short Bros & Harland Ltd. 2	Queens Island, Belfast, Ireland	
Societe Rateau, 1-2-3	Rue Rateau La Courneuve, Seine, France	
Solar Aircraft Co. 1	2200 Pacific Hwy, San Diego 12	Cal
Stromberg-Carlson Div, Gen. Dynamics Corp. 1-3	100 Carlson Rd, Rochester	NY
Telechrome Mfg. Corp. 1	28 Ranick Dr, Amityville	NY
TELEFLEX INC. 1-2-3, Adv Pg 118	**Church Rd. North Wales**	**Pa**
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, 1-2-3, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Trio Machine Works, Inc. 1-2-3	3045 N 3rd St. Philadelphia 33	Pa
United Control Systems, Inc. 1-2	918 Woodley Rd. Dayton 3	Ohio
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. 1-2-3, Adv. Pgs. 76, 77	**Balch St. Beverly**	**Mass**
Vard, 1-2	2981 E Colorado, Pasadena	Cal
Vickers, Inc. Div. Sperry-Rand Corp. Marine & Ordnance Dept. 2	Waterbury 20	Conn
Western Gear Corp, 1	Box 182 Lynwood	Cal
WESTINGHOUSE ELEC CORP. ATOMIC EQUIP. DEPT. 1-2-3, Adv. Pgs. 138, 139, 142, 143	**Cheswick**	**Pa**
Whittaker Controls Div. Telecomputing Corp., 1-2-3	915 N Citrus, LA	Cal
Yuba Consolidated Industries, Inc. 1	1 Bush St, San Francisco 4	Cal

CONTROL RODS—REACTOR

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
AEROJET-GENERAL NUCLEONICS, Adv Pg 119	**Box 77, San Ramon**	**Cal**
ALLIS-CHALMERS MFG. CO. Adv. Pgs. 45, 47	**935 S 70th St. Milwaukee 1**	**Wis**
AMERICAN SMELTING & REFINING CO. Adv Pg 125	**120 Broadway, New York 5**	**NY**
American Welding & Mfg. Co.	555 Dietz Rd, Warren	Ohio
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	**Charleroi, Belgium**	
Atomics International Div, NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St. New York 17**	**NY**
Bart Labs. & Design Inc.	125 Manchester Pl, Newark 4	NJ
BROOKS & PERKINS, INC. Adv Pg 48	**1936 W Fort St. Detroit 16**	**Mich**
Canadian GE Co. Ltd.	107 Park St, Peterborough, Ont Can	
Combustion Engineering, Inc.	200 Madison Ave, New York 16	NY
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	**Box 748, Fort Worth**	**Tex**
DIAMOND POWER SPECIALTY CORP. Adv Pg 132	**Box 415 Lancaster**	**Ohio**
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
EX-CELL-O CORP. Adv. Pgs. 62, 63	**1200 Oakman Blvd. Detroit 32**	**Mich**
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
General Atrometals Corp.	320 Yonkers Ave, Yonkers 2	NY
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	**Box 608, San Diego 12**	**Cal**
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln, Langley, Nr, Slough, Bucks	Eng
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
Kiffer Tool & Die Inc.	5601 Tillman Ave, Cleveland 2	Ohio
MARTIN CO. NUCLEAR DIV. Adv Pg 5	**Mail G-3037 Baltimore 3**	**Md**
Marvel-Schebler Products Div. Borg-Warner Corp.	2195 S Elwin Rd, Decatur	Ill
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	**5 New St. White Plains**	**NY**
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Wincester Ave, New Haven	Conn
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Research Development Manufacture, Inc.	429 E Collom St, Philadelphia 44	Pa

Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
SUPERIOR TUBE CO. Adv Pg 28	**Box 191, Norristown**	**Pa**
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd, Bayside	NY
Talbot Stead Tube Co, Ltd.	Green Ln. Walsall, Staffs, England	
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	**Box 896, Attleboro**	**Mass**
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
Vard	2981 E Colorado, Pasadena	Cal
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
WAH CHANG CORP. Adv Pg 221	**233 Broadway, New York 7**	**NY**
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	**Cheswick**	**Pa**

CONTROL SYSTEMS—REACTOR
See Also CONTROL-ROD DRIVES
CONTROL RODS
INDICATORS—CONTROL-ROD POSITION
REACTOR INSTRUMENT SYSTEMS

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
AEROJET-GENERAL NUCLEONICS, Adv Pg 119	**Box 77, San Ramon**	**Cal**
Aerotec Industries, Inc, Industrial Div.	2 Meadow St, South Norwalk	Conn
ALLIS-CHALMERS MFG. CO. Adv. Pgs. 45, 47	**935 S 70th St. Milwaukee 1**	**Wis**
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	**Charleroi, Belgium**	
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que	Can
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Barnes Co., W. F. & John	301 S Water St. Rockford	Ill
Bell Telephone Mfg Co, Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. Cincinnati Div.	3130 Wasson Rd. Cincnti 8	Ohio
Canadian GE Co. Ltd.	107 Park St. Petersborough, Ont	Can
Canadian Westinghouse Co, Ltd.	Box 510, Hamilton, Ontario, Canada	
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	**Box 748, Fort Worth**	**Tex**
CURTISS-WRIGHT CORP. PRINCETON DIV. Adv Pg 211	**Box 110, Princeton**	**NJ**
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Daystrom, Inc, Weston Instruments Div.	614 Prelinghuysen Ave, Newark 12	NJ
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
EX-CELL-O CORP. Adv. Pgs. 62, 63	**1200 Oakman Blvd. Detroit 32**	**Mich**
Fairchild Camera & Instr. Corp. Defense Prods Div.	300 Robbins Ln. Syosset	NY
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave. LIC 1	NY
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	**Erith, Kent, England**	
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks.	Eng
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Integra, Leeds & Northrup Ltd.	Broad St. Birmingham 15, England	
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
LEACH CORP. Adv Pg 253	**18435 Susana Rd. Compton**	**Cal**
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Marvel-Schebler Products Div. Borg-Warner Corp.	2195 S Elwin Rd. Decatur	Ill
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	**Eindhoven, The Netherlands**	
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 276I	**61 E North Ave. Northlake**	**Ill**
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
THOMSON-HOUSTON (CIE. FRANCAISE), Adv Pg 276B	**173 Blvd. Haussman, Paris 8, France**	
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. Adv. Pgs. 76, 77	**Beech St. Beverly**	**Mass**
U. S. Controls, Inc.	410 4th Ave. Brooklyn 15	NY
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Westinghouse Elec Corp. Pwr Control & Comm Dept.	East Pittsburgh	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal
Yuba Consolidated Industries, Inc.	1 Bush St, San Francisco 6	Cal

CONTROLLERS—PROPORTIONING

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Assembly Products, Inc.	75 Wilson Mills Rd. Chesterland	Ohio
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que	Can
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St. Rockford	Ill
Barton Instrument Corp.	580 Monterey Pass Rd. Monterey Park	Cal
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Consolidated Engines & Machy Co, Ltd.	5645 Pare St. Mt. Royal, Montreal, Can	
Dalmo Victor Co. Div. Textron Inc.	1515 Industrial Way, Belmont	Cal
Daystrom, Inc. Weston Instruments Div.	614 Prelinghuysen Ave, Newark 12	NJ
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Electronic Processes Corp.	436 Bryant St. San Francisco	Cal
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Fenwal Inc.	Pleasant St. Ashland	Mass
Fielden Electronics Ltd.	Paston Rd. Wythenshawe, Man 22, Eng	
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
General Controls Co.	801 Allen Ave. Glendale 1	Cal
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	**Box 1346, Pittsburgh 30**	**Pa**
Hays Corp.	Michigan City 40	Ind
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Illinois Testing Labs, Inc.	420 N La Salle St. Chicago	Ill
Johnson Service Co.	Milwaukee 1	Wis
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
OPW-Jordan	6013 Wiehe Rd. Cincinnati 13	Ohio
Partlow Corp.	Dept. NBG-58 New Hartford	NY
Potter Aeronautical Corp.	Route #22, Union	NJ
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Robertshaw-Fulton Controls Co., Aero & Inst Div.	Santa Ana Fwy/at Euclid, Anaheim	Cal
Robertshaw-Fulton Controls Co. Fulton Sylphon Div.	Box 400, Knoxville 1	Tenn
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Squires Co., C. E.	18502 Syracuse Ave. Cleveland 10	Ohio
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Swartwout Div.-Crane Co.	Hooksett Ind. Park, Manchester	NH
Thermolyne Corp.	465 Huff St. Dubuque	Iowa
Thompson, Ltd., John	Wolverhampton, England	
Varo Mfg. Co. Inc.	2201 Walnut St. Garland	Tex
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
West Instrument Corp.	4363 W Montrose Ave. Chicago 41	Ill
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

CONTROLS—FILM-THICKNESS
See GAGES—THICKNESS, NONRADIOACTIVITY
GAGES—THICKNESS OR DENSITY, RADIOACTIVITY

CONTROLS—FLUID-FLOW
See Also METERS—FLOW

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Acoustica Associates Inc.	5305 W 102 St, Los Angeles 45	Cal
Aero Supply Mfg. Co. Inc.	Corry	Pa
Aerotec Industries, Inc. Industrial Div.	2 Meadow St, South Norwalk	Conn
Airmatic Valve, Inc.	7313 Associate Ave. Cleveland 9	Ohio
ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	**43 Leon St. Boston 15**	**Mass**
Associated Valve Co.	Walnut & Center, North Wales	Pa
Atlas Valve Co.	280 South St. Newark 5	NJ

Atomium Corp.	940 Main St, Waltham	Mass
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
B-I-F Industries, Inc.	530-D Harris Ave. Providence 1	RI
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Barton Instrument Corp.	580 Monterey Pass Rd. Monterey Park	Cal
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Black, Sivalls & Bryson, Inc.	7500 E 12 St. Kansas City 26	Mo
Blaw-Knox Co.	300 6th Ave. N. B. Pittsburgh 22	Pa
BRISTOL CO. Adv Pg 110	**Box 1790 NBG, Waterbury 20**	**Conn**
Brooks Instrument Co. Inc.	407 W Vine St. Hatfield	Pa
Conoflow Corp.	2100 Arch St. Philadelphia 3	Pa
Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn
Consolidated Engines & Machy Co. Ltd.	5645 Pare St. Mt. Royal, Montreal	Can
Controls Co. of America	9655 Soreng Ave. Schiller Park	Ill
Copes-Vulcan Div. Blaw-Knox Co.	939 W 26 St. Erie 4	Pa
CURTISS-WRIGHT CORP. PRINCETON DIV. Adv Pg 211	**Box 110, Princeton**	**NJ**
Dalmo Victor Co. Div. Textron Inc.	1515 Industrial Way, Belmont	Cal
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
Eagle Signal Co. Div. The Gamewell Co.	202 20th St. Moline	Ill
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Ericsson Telephones Ltd.	High Church St. New Basford, Nott.	Eng
Fielden Electronics Ltd.	Paston Rd. Wythenshawe, Man 22	Eng
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
FISHER GOVERNOR CO. Adv Pg 123	**Box 307, Marshalltown**	**Iowa**
Flow-Acutated Control Co. Inc.	17-19 Park Row, New York 38	NY
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
General Controls Co.	801 Allen Ave. Glendale 1	Cal
General Regulator Corp. Sub. Foster Wheeler Corp.	666 5th Ave. New York 19	NY
Glenco Corp.	212 Durham Ave. Metuchen	NJ
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	**Box 1346, Pittsburgh 30**	**Pa**
Hammel-Dahl/Foster Engineering Div. Gen. Controls Co.	Warwick Industrial Pk. Warwick	RI
Hays Corp.	Michigan City 40	Ind
Hays Mfg. Co.	814 W 12th St. Erie	Pa
Holley Carburetor Co.	11955 E 9 Mile Rd, Warren	Mich
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
ISOTOPES SPECIALTIES CO. DIV. HUCLEAR CORP. OF AMERICA Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
Kates Co., W. A.	430 Waukegan Rd. Deerfield	Ill
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	**1150 McBride Ave. Little Falls**	**NJ**
Kieley & Mueller Co., Inc.	64 Genung St, Middletown	NY
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Lintronic Ltd.	47 CharingCross Rd. London, WC2,	Eng
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Narda Ultrasonics Corp.	625 Main St. Dept. NBG, Westbury	NY
National Instrument Labs. Inc.	842 Evarts St, NE, Washington	DC
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
OPW-Jordan	6013 Wiehe Rd. Cincinnati 13	Ohio
Parker Aircraft Co.	5627 W Century Blvd, L A 45	Cal
Potter Aeronautical Corp.	Route #22, Union	NJ
Powertron Ultrasonics Corp.	E Gate Blvd, Garden City	NY
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Revere Corp. of America	Wallingford	Conn
Robertshaw-Fulton Controls Co., Aero & Inst Div.	Santa Ana Fwy/at Euclid, Anaheim	Cal
Robertshaw-Fulton Controls Co. Fulton Sylphon Div.	Box 400, Knoxville 1	Tenn
Rousseau Controls Ltd.	640 Decourcelle St. Montreal, Que. Can.	
Servomechanisms Inc.	200 Aviation Blvd, El Segundo	Cal
Siemens & Halske AG	Rheinbrueckenstr, 50, Karlsruhe, Germany	
Simmonds Precision Products, Inc.	105 White Plains Rd. Tarrytown	NY
Simplex Valve & Meter Co.	7 E Orange St. Lancaster	Pa
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Statham Instruments, Inc.	12401 W Olympic Blvd. LA 64	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Swartwout Div.-Crane Co.	Hooksett Ind. Park, Manchester	NH
Taylor Instrument Cos.	38 Ames St, Rochester 1	NY
Thompson, Ltd., John	Wolverhampton, England	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Trans-Sonics, Inc.	Burlington	Mass
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
Victory Engineering Corp.	Box 373, Union	NJ
Wallace & Tiernan, Inc.	25 Main St, Belleville 9	NJ
Watson-Marlow Air Pump Co.	Marlow Bucks, England	
Westinghouse Elec Corp, Pwr Control & Comm Dept.	East Pittsburgh	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

CONTROLS—HUMIDITY
See Also GAGES—HUMIDITY

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
Abbeon Supply Co.	179-15 Jamaica Ave. Jamaica 32	NY
Air-Shields, Inc.	Hatboro	Pa
ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	**43 Leon St. Boston 15**	**Mass**
American Instrument Co. Inc.	8030 Georgia Ave, Silver Spring	Md
Atkins Technical, Inc.	1276 W 3 St, Cleveland 13	Ohio
Automation Products, Inc.	3030 Max Roy St, Houston 24	Tex
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St, Rockford	Ill
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
BRISTOL CO. Adv Pg 110	**Box 1790 NBG, Waterbury 20**	**Conn**
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl, London SW1,	Eng
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave, Newark 12	NJ
Electronic Processes Corp.	436 Bryant St, San Francisco	Cal
Fielden Electronics Ltd.	Paston Rd, Wythenshawe, Man 22,	Eng
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Gelman Instrument Co.	106 N Main St, Chelsea	Mich
General Controls Co.	801 Allen Ave, Glendale 1	Cal
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Grinnell Co.	260 W Exchange St. Providence 1	RI
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Johnson Service Co.	Milwaukee 1	Wis
Krantz Lufttechnik, H.	Aachen-Richterich, Germany	
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Lock & Co. Ltd., A. M.	Union St, Oldham, Lanc, England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
Philco Corp. Lansdale Tube Div.	Church Rd. Lansdale	Pa
Powers Regulator Co.	3400 Oakton St, Skokie	Ill
Prazisionsmessgerate RSV	13b Hechendorf/Pilsensee, Germany	
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
Texas Instruments Incorporated, Geosciences & Instrumentation Div.	3609 Buffalo Speedway, Houston 6	Tex
Weksler Instruments Corp.	195 E Merrick Rd. Freeport	NY

CONTROLS—LIQUID-LEVEL
See Also INDICATORS—LIQUID LEVEL

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Acoustica Associates Inc.	5305 W 102 St, Los Angeles 45	Cal
Aero Supply Mfg. Co. Inc.	Corry	Pa
Aerotec Industries, Inc. Industrial Div.	2 Meadow St, South Norwalk	Conn
Airmatic Valve, Inc.	7313 Associate Ave. Cleveland 9	Ohio
Airmec, Ltd.	High Wycombe, Bucks, England	
Allen-Bradley Co.	136 W Greenfield Ave. Milwaukee 4	Wis
Associated Valve Co.	Walnut & Center, North Wales	Pa
Atlas Valve Co.	280 South St. Newark 5	NJ
Atomium Corp.	940 Main St. Waltham	Mass
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Automation Products, Inc.	3030 Max Roy St, Houston 24	Tex
Autotron Inc.	3629 N Vermilion St, Danville	Ill
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
B-I-F Industries, Inc.	530-D Harris Ave. Providence 1	RI
B/W Controller Corp.	2200 E Maple Rd. Birmingham	Mich
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St, Rockford	Ill
BELGONUCLEAIRE, Adv Pg 128	**35 rue des Colonies, Bruxelles 1, Belgium**	
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
Black, Sivalls & Bryson, Inc.	7500 E 12 St, Kansas City 26	Mo
Blaw-Knox Co.	300 6th Ave. N. B. Pittsburgh 22	Pa
Breeze Corps. Inc.	700 Liberty Ave. Union	NJ

BRISTOL CO. Adv Pg 110	**Box 1790 NBG, Waterbury 20**	**Conn**
Brooks Instrument Co. Inc.	407 W Vine St, Hatfield	Pa
Burndept Ltd.	West St, Erith, Kent, Eng	
Conoflow Corp.	2100 Arch St, Philadelphia 3	Pa
Consolidated Controls Corp.	14 Durant Ave, Bethel	Conn
Consolidated Engines & Machy Co. Ltd.	5645 Pare St, Mt. Royal, Montreal, Can	
Controls Co. of America	9555 Soreng Ave, Schiller Park	Ill
Copes-Vulcan Div. Blaw-Knox Co.	939 W 26 St, Erie 4	Pa
Crouse-Hinds Co. of Canada Ltd.	1160 Birchmount Rd, Scarborough, Toronto, Ontario, Canada	
Cutler-Hammer, Inc.	412 N 12th St, Milwaukee 1	Wis
Daystrom, Inc., Weston Instruments Div.	614 Prelinghuysen Ave, Newark 12	NJ
Dietz Co. Inc., Henry G.	12-16 Astoria Blvd, Long Island City 2	NY
Electroflo Meters Co. Ltd.	Abbey Rd, Park Royal, NW 10, London	Eng
Electronics Corp. of America	1 Memorial Dr, Cambridge 42	Mass
Energy Control Co., Inc.	5 Beekman St, New York 38	NY
Fielden Electronics Ltd.	Paston Rd, Wythenshawe, Man 22, Eng	
Fischer & Porter Co.	50 Warminster Rd, Warminster	Pa
FISHER GOVERNOR CO. Adv Pg 123	**Box 307, Marshalltown**	**Iowa**
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
Foxboro Co.	38 Neponset Ave, Foxboro	Mass
General Controls Co.	801 Allen Ave, Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd, Schenectady 5**	**NY**
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Guardian Electric Mfg. Co.	1550 W Carroll Ave, Chicago 7	Ill
HAGAN CHEMICALS & CONTROLS, INC.		
Adv. Pgs. 120, 121	**Box 1346, Pittsburgh 30**	**Pa**
Haledy Electronics Co.	57 William St, New York 5	NY
Hammel-Dahl/Foster Engineering Div. Gen. Controls Co.	Warwick Industrial Pk, Warwick	RI
Hays Corp.	Michigan City 40	Ind
Honeywell Controls, Ltd.	Vanderhoof Ave, Toronto, Ont Canada	
Industrial Nucleonics Corp.	650 Ackerman Rd, Columbus 2	Ohio
Instruments, Inc.	Box 556, Tulsa	Okla
ISOTOPE DEVELOPMENTS LTD.		
Adv Pg 239	**Bath Rd, Reading, Berks, England**	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
Johnson Corp.	809 Wood St, Three Rivers	Mich
Johnson Service Co.	Milwaukee 1	Wis
KEARFOTT DIV. GEN. PRECISION, INC.		
Adv Pg 269	**1150 McBride Ave, Little Falls**	**NJ**
Kieley & Mueller Co., Inc.	64 Genung St, Middletown	NY
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwärzwald, Germany	
Leeds & Northrup Co.	4936 Stenton Ave, Phila 44	Pa
Lock & Co, Ltd., A. M.	Union St, Oldham, Lanc, England	
Magnetic Instruments Co. Inc.	637 Commerce St, Thorwood	NY
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
Mercoid Corp.	4201 Belmont Ave, Chicago 41	Ill
Minn-Honeywell Reg Co, Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves, Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
Narda Ultrasonics Corp.	625 Main St, Dept. NBG, Westbury	NY
New Jersey Safety Equip. Co.	299 Park Ave, Box 186, East Orange	NJ
Newman Industries Ltd.	Yate, Bristol, England	
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	**2 Richwood Pl, Denville**	**NJ**
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	**5 New St, White Plains**	**NY**
Nuclear Research Applications Ltd.	Bell St, Reigate, Surrey, England	
Nuclear Research Corp.	Southampton	Pa
OPW-Jordan	6013 Wiehe Rd, Cincinnati 13	Ohio
Ohmart Corp.	2236 Bogen St, Cincinnati 14	Ohio
Parker Aircraft Co.	5827 W Century Blvd, L A 45	Cal
Photobell Co. Inc.	43 Vesey St, New York 7	NY
Powers Regulator Co.	3400 Oakton St, Skokie	Ill
Powertron Ultrasonics Corp.	E Gate Blvd, Garden City	NY
Republic Flow Meter Co.	2260 Diversey Pkwy, Chicago 47	Ill
Revere Corp. of America	Wallingford	Conn
Robertshaw-Fulton Controls Co., Aero & Inst Div.	Santa Ana Fwy/at Euclid, Anaheim	Cal
Robertshaw-Fulton Controls Co. Fulton Sylphon Div.	Box 400, Knoxville 1	Tenn
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SELO	Via Monfalcone, 12, Milano, Italy	
Servomechanisms Inc.	200 Aviation Blvd, El Segundo	Cal
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Simmonds Precision Products, Inc.	105 White Plains Rd, Tarrytown	NY
Squires Co., C. E.	18502 Syracuse Ave, Cleveland 10	Ohio
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Swartwout Div.-Crane Co.	Hookstett Ind. Park, Manchester	NH
Taylor Instrument Cos.	38 Ames St, Rochester 1	NY
Terrisr-Consolidated Industries	22-24 Wooster St, New York 13	NY
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
Thompson, Ltd., John	Wolverhampton, England	
Trans-Sonics, Inc.	Burlington	Mass
ULTRASONIC INDUSTRIES, INC.		
Adv Pg 59	**141 Albertson Ave, Albertson**	**NY**
Vickers, Inc. Electric Products Div.	1815 Locust St, St Louis 3	Mo
Victory Engineering Corp.	Box 373, Union	NJ
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Westinghouse Elec Corp. Pwr Control & Comm Dept.	East Pittsburgh	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal
Yarnall-Waring Co.	102 E Mermaid Ln, Phila 18	Pa

CONTROLS—pH
See *Also* METERS—pH

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
Advanced Instruments, Inc.	45N Kenneth St, Newton Highlands 61	Mass
Assembly Products, Inc.	75 Wilson Mills Rd, Chesterland	Ohio
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave, St. Paul 4E	Minn
B-I-F Industries, Inc.	530-D Harris Ave, Providence 1	RI
Bailey Meter Co.	29801 Euclid Ave, Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St, W, Montreal, Que	Can
Bailey Meters & Controls Ltd.	Purley Way, Croydon, Surrey, England	
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St, Rockford	Ill
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
BRISTOL CO. Adv Pg 110	**Box 1790 NBG, Waterbury 20**	**Conn**
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl, London SW1, Eng	
Consolidated Engines & Machy Co. Ltd.	5645 Pare St, Mt. Royal, Montreal, Can	
Daystrom, Inc., Weston Instruments Div.	614 Prelinghuysen Ave, Newark 12	NJ
Dearborn Chemical Co.	Merch. Mart Plaza, Chicago 54	Ill
Electroflo Meters Co. Ltd.	Abbey Rd, Park Royal, NW 10, London	Eng
Fielden Electronics Ltd.	Paston Rd, Wythenshawe, Man 22, Eng	
Foxboro Co.	38 Neponset Ave, Foxboro	Mass
HAGAN CHEMICALS & CONTROLS, INC.		
Adv. Pgs. 120, 121	**Box 1346, Pittsburgh 30**	**Pa**
Honeywell Controls, Ltd.	Vanderhoof Ave, Toronto, Ont Canada	
Integra, Leeds & Northrup Ltd.	Broad St, Birmingham 15, England	
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Leeds & Northrup Co.	4936 Stenton Ave, Phila 44	Pa
Lock & Co. Ltd., A. M.	Union St, Oldham, Lanc, England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Process & Instruments	15 Stone Ave, Brooklyn 33	NY
Pye & Co. Ltd., W. G.	York St, Cambridge, England	
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr, Bloomfield	NJ
Siemens & Halske AG	Rheinbrueckenstr, 50, Karlsruhe, Germany	
Special Instruments Lab, Inc.	312 W Vine Ave, Knoxville 02	Tenn
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Swartwout Div.-Crane Co.	Hookstett Ind. Park, Manchester	NH
Taylor Instrument Cos.	38 Ames St, Rochester 1	NY
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Will Corp.	Box 1050, Rochester 3	NY

CONTROLS—PRESSURE
See *Also* GAGES—PRESSURE

ACF Industries, Inc.	750 3rd Ave, New York 17	NY
AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Aero Supply Mfg. Co. Inc.	Corry	Pa
Aerotec Industries, Inc. Industrial Div.	2 Meadow St, South Norwalk	Conn
Airmatic Valve, Inc.	7313 Associate Ave, Cleveland 9	Ohio
Allen-Bradley Co.	136 W Greenfield Ave, Milwaukee 4	Wis
ALLIED RESEARCH ASSOCIATES, INC.		
Adv Pg 107	**43 Leon St, Boston 15**	**Mass**
Associated Valve Co.	Walnut & Center, North Wales	Pa
Atlas Valve Co.	280 South St, Newark 5	NJ
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave, St. Paul 4E	Minn
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Avien, Inc.	58-15 Northern Blvd, Woodside 77	NY
B-I-F Industries, Inc.	530-D Harris Ave, Providence 1	RI
Bailey Meter Co.	29801 Euclid Ave, Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St, W, Montreal, Que	Can
Bailey Meters & Controls Ltd.	Purley Way, Croydon, Surrey, England	
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd, Cambridge 38**	**Mass**
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St, Rockford	Ill
Bendix Corp.	1128 Fisher Bldg, Detroit 2	Mich
Bently Scientific Co.	2811 7th St, Berkeley 10	Cal
Black, Sivalls & Bryson, Inc.	7500 E 12 St, Kansas City 26	Mo
Blaw-Knox Co.	300 6th Ave, N. B, Pittsburgh 22	Pa
BRISTOL CO. Adv Pg 110	**Box 1790 NBG, Waterbury 20**	**Conn**
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl, London SW1, Eng	
Conoflow Corp.	2100 Arch St, Philadelphia 3	Pa

Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn
Controls Co. of America	9655 Soreng Ave. Schiller Park	Ill
Copes-Vulcan Div. Blaw-Knox Co.	939 W 26 St. Erie 4	Pa
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Daystrom, Inc. Weston Instruments Div.	614 Prelinghuysen Ave. Newark 12	NJ
Detroit Controls Div. Amer. Rad. & Stand. San. Corp.	5900 Trumbull, Detroit 8	Mich
De Vilbiss Co.	300 Phillips Ave. Toledo 1	Ohio
Dietz Co. Inc., Henry G.	12-16 Astoria Blvd. Long Island City 2	NY
Eclipse Fuel Engineering Co.	1100 Buchanan, Rockford	Ill
Edison Ind., Thomas A., Instr. Div. McGraw-Edison Co.	40 Lakeside Ave. West Orange	NJ
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Electronic Systems Development Corp.	1484 E Main St. Ventura	Cal
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
Fielden Electronics Ltd.	Paston Rd. Wythenshawe, Man 22, Eng	
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
FISHER GOVERNOR CO. Adv Pg 123	**Box 387, Marshalltown**	**Iowa**
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
General Controls Co.	801 Allen Ave. Glendale 1	Cal
General Regulator Corp. Sub. Foster Wheeler Corp.	666 5th Ave. New York 19	NY
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	**Box 1346, Pittsburgh 30**	**Pa**
Hammel-Dahl/Foster Engineering Div. Gen. Controls Co.	Warwick Industrial Pk. Warwick	RI
Haskell Engineering Co.	1236 S Central Ave. Glendale 4	Cal
Hastings-Raydist, Inc.	Newcomb Ave. Hampton	Va
Hays Corp.	Michigan City 40	Ind
Holley Carburetor Co.	11955 E 9 Mile Rd. Warren	Mich
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Johnson Service Co.	Milwaukee 1	Wis
Kieley & Mueller Co., Inc.	64 Genung St. Middletown	NY
LEACH CORP. Adv Pg 253	**18435 Susana Rd. Compton**	**Cal**
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Lintronic Ltd.	47 CharingCross Rd. London, WC2, Eng	
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
Mercoid Corp.	4201 Belmont Ave. Chicago 41	Ill
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
OPW-Jordan	6013 Wiehe Rd. Cincinnati 13	Ohio
Parker Aircraft Co.	5927 W Century Blvd. L A 45	Cal
Powers Regulator Co.	3400 Oakton St. Skokie	Ill
Powertron Ultrasonics Corp.	E Gate Blvd. Garden City	NY
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Robertshaw-Fulton Controls Co., Aero & Inst Div.	Santa Ana Fwy/at Euclid, Anaheim	Cal
Robertshaw-Fulton Controls Co. Fulton Sylphon Div.	Box 400, Knoxville 1	Tenn
Rousseau Controls Ltd.	640 Decourcelle St. Montreal, Que. Can.	
Servomechanisms Inc.	200 Aviation Blvd. El Segundo	Cal
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Simmonds Precision Products, Inc.	105 White Plains Rd. Tarrytown	NY
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Squires Co., C. E.	18502 Syracuse Ave. Cleveland 10	Ohio
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Statham Instruments, Inc.	12401 W Olympic Blvd. LA 64	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Swartwout Div.-Crane Co.	Hooksett Ind. Park, Manchester	NH
Thompson, Ltd., John	Wolverhampton, England	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Trans-Sonics, Inc.	Burlington	Mass
Ultradyne, Inc.	2622 San Mateo NE, Albuquerque	NM
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
Wallace & Tiernan, Inc.	25 Main St. Belleville 9	NJ
Weksler Instruments Corp.	195 E Merrick Rd. Freeport	NY
West Instrument Corp.	4963 W Montrose Ave. Chicago 41	Ill
Westinghouse Elec Corp. Pwr Control & Comm Dept.	East Pittsburgh	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus. LA	Cal

CONTROLS—SPEED

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Airmatic Valve, Inc.	7313 Associate Ave. Cleveland 9	Ohio
Allen-Bradley Co.	136 W Greenfield Ave. Milwaukee 4	Wis
ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	**43 Leon St. Boston 15**	**Mass**
Allis Co., Louis	427 E Stewart St. Milwaukee 7	Wis
Assembly Products, Inc.	75 Wilson Mills Rd. Chesterland	Ohio
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que Can	
Bailey Meters & Controls Ltd.	Purley Way, Croydon, Surrey, England	
BAIRD-ATOMIC, INC. Adv Pg 45	**33 University Rd. Cambridge 38**	**Mass**
Barber-Colman Co. Wheelco Instruments Div.	1500 Rock St. Rockford	Ill
Bently Scientific Co.	2811 7th St. Berkeley 10	Cal
Bowmar Instrument Corp.	8000 Bluffton Rd. Fort Wayne	Ind
BRISTOL CO. Adv Pg 110	**Box 1790 NBG, Waterbury 20**	**Conn**
Clark Controller Co.	1146 E 152 St. Cleveland 10	Ohio
Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Data-Master Corp. Sub. The Bristol Co.	85 Hazel St. Glen Cove	NY
Daystrom, Inc. Weston Instruments Div.	614 Prelinghuysen Ave. Newark 12	NJ
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
Electro Products Labs.	4501 N Ravenswood Ave. Chicago 40	Ill
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
General Radio Co.	West Concord	Mass
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	**Box 1346, Pittsburgh 30**	**Pa**
Haydon Mfg. Co.	245 E Elm St. Torrington	Conn
Holley Carburetor Co.	11955 E 9 Mile Rd. Warren	Mich
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	**1150 McBride Ave. Little Falls**	**NJ**
Krantz Lufttechnik, H.	Aachen-Richterich, Germany	
Laboratory for Electronics, Inc.	1079 Commonwealth Ave. Boston	Mass
LEACH CORP. Adv Pg 253	**18435 Susana Rd. Compton**	**Cal**
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Magnetic Amplifiers Div. Siegler Corp.	622 Tinton Ave. New York 55	NY
Marvel-Schebler Products Div. Borg-Warner Corp.	2195 S Elwin Rd. Decatur	Ill
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Newman Industries Ltd.	Yate, Bristol, England	
Ohmite Mfg. Co.	3601 Howard St. Skokie	Ill
Ovitron Corp.	37-06 48 Ave. Long Island City	NY
Servomechanisms Inc.	200 Aviation Blvd. El Segundo	Cal
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Superior Electric Co., The	83 Laurel St. Bristol	Conn
Swartwout Div.-Crane Co.	Hooksett Ind. Park, Manchester	NH
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Varo Mfg. Co. Inc.	2201 Walnut St. Garland	Tex
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo

CONTROLS—TEMPERATURE

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Abbeon Supply Co.	179-15 Jamaica Ave. Jamaica 32	NY
Aerogen Co. Ltd. Anstey Mill Ln. Wks.	Alton, Hampshire, England	
Aerotec Industries, Inc. Industrial Div.	2 Meadow St. South Norwalk	Conn
Airborne Accessories Corp.	1414 Chestnut Ave. Hillside 5	NJ
Airmatic Valve, Inc.	7313 Associate Ave. Cleveland 9	Ohio
Airmec, Ltd.	High Wycombe, Bucks. England	
Allen-Bradley Co.	136 W Greenfield Ave. Milwaukee 4	Wis
ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	**43 Leon St. Boston 15**	**Mass**
Assembly Products, Inc.	75 Wilson Mills Rd. Chesterland	Ohio
Atkins Technical, Inc.	1276 W 3 St. Cleveland 13	Ohio
Atlantic Pyrometers, Inc.	190 Warburton Ave. Hawthorne	NJ
Atlas Valve Co.	280 South St. Newark 5	NJ
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
B-I-F Industries, Inc.	530-D Harris Ave. Providence 1	RI
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que Can	
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St. Rockford	Ill
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Black, Sivalls & Bryson, Inc.	7500 E 12 St. Kansas City 26	Mo
BRISTOL CO. Adv Pg 110	**Box 1790 NBG, Waterbury 20**	**Conn**
Burling Instrument Co. Inc.	16 River Rd. Chatham	NJ
Burndept Ltd.	West St. Erith, Kent, Eng	
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Conoflow Corp.	2100 Arch St. Philadelphia 3	Pa
Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn

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Controls Co. of America	9555 Soreng Ave. Schiller Park	Ill
Copes-Vulcan Div. Blaw-Knox Co.	939 W 26 St. Erie 4	Pa
Crescent Engrg. & Research Co.	5440 N Peck Rd. El Monte	Cal
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Daystrom, Inc. Weston Instruments Div.	614 Prelinghuysen Ave. Newark 12	NJ
Deltron, Inc.	4th & Cambria Sts. Philadelphia 33	Pa
Detroit Controls Div. Amer. Rad. & Stand. San. Corp.	5900 Trumbull, Detroit 8	Mich
Eclipse Fuel Engineering Co.	1100 Buchanan, Rockford	Ill
Edison Ind., Thomas A., Instr. Div. McGraw-Edison Co.	40 Lakeside Ave. West Orange	NJ
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Electronic Processes Corp.	436 Bryant St. San Francisco	Cal
Electronic Systems Development Corp.	1484 E Main St. Ventura	Cal
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
Epic, Inc.	150 Nassau St. New York 38	NY
Fenwal Inc.	Pleasant St. Ashland	Mass
Fielden Electronics Ltd.	Paston Rd. Wythenshawe, Man 22, Eng	
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Foster Instrument Co. Ltd.	Letchworth, Herts, England	
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
Gelman Instrument Co.	106 N Main St. Chelsea	Mich
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Regulator Corp. Sub. Foster Wheeler Corp.	666 5th Ave. New York 19	NY
Gordon Co., Claud S.	619 W 30 St. Chicago 16	Ill
H-B Instrument Co.	American & Bristol Sts. Philadelphia 40	Pa
HAGAN CHEMICALS & CONTROLS, INC.		
Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Hammel-Dahl/Foster Engineering Div. Gen. Controls Co.	Warwick Industrial Pk. Warwick	RI
Hays Corp.	Michigan City 40	Ind
Hickok Electrical Instrument Co.	10501 Dupont Ave. Cleveland 8	Ohio
Hill & Co., E. Vernon	Box 189, Lake Geneva	Wis
Holley Carburetor Co.	11955 E 9 Mile Rd. Warren	Mich
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Illinois Testing Labs. Inc.	420 N La Salle St. Chicago	Ill
Instruments, Inc.	Box 556, Tulsa	Okla
Integra, Leeds & Northrup Ltd.	Broad St. Birmingham 15, England	
Johnson Service Co.	Milwaukee 1	Wis
Kieley & Mueller Co., Inc.	64 Genung St. Middletown	NY
Krantz Lufttechnik, H.	Aachen-Richterich, Germany	
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Lintronic Ltd.	47 CharingCross Rd. London, WC2, Eng	
Lock & Co. Ltd., A. M.	Union St. Oldham, Lanc. England	
Magnetic Instruments Co. Inc.	637 Commerce St. Thornwood	NY
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
Mercoid Corp.	4201 Belmont Ave. Chicago 41	Ill
Metrix Instruments Ltd.	54 Victoria Rd. Surbiton, Surrey, Eng	
Miles Electronics Ltd.	Shoreham Arpt. Shoreham, Sussex, Eng	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Modern Lab. Equipment Co., Inc.	1811 1st Ave. New York 28	NY
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
Newman Industries Ltd.	Yate, Bristol, England	
OPW-Jordan	6013 Wiehe Rd. Cincinnati 13	Ohio
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
Ovitron Corp.	37-05 48 Ave. Long Island City	NY
Parker Aircraft Co.	5827 W Century Blvd. L A 45	Cal
Partlow Corp.	Dept. NBG-58 New Hartford	NY
Patterson Moos Research Div. Lessona Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
Powers Regulator Co.	3400 Oakton St. Skokie	Ill
Process Control Gear Ltd.	Lattimore Rd. St. Albans, Herts, England	
Pyrometer Instrument Co. Inc.	92 Portland Ave. Bergenfield	NJ
Radiation Electronics Co. Div. Comptometer Corp.	5600 Jarvis Ave. Chicago 48	Ill
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Robertshaw-Fulton Controls Co. Aero & Inst Div.	Santa Ana Fwy/at Euclid, Anaheim	Cal
Robertshaw-Fulton Controls Co. Fulton Sylphon Div.	Box 400, Knoxville 1	Tenn
Rousseau Controls Ltd.	640 Decourcelle St. Montreal, Que. Can.	
Servomechanisms Inc.	200 Aviation Blvd. El Segundo	Cal
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Sigma Instruments, Inc.	170 Pearl St. South Braintree 85	Mass
Simmonds Precision Products, Inc.	105 White Plains Rd. Tarrytown	NY
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Squires Co., C. E.	18502 Syracuse Ave. Cleveland 10	Ohio
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stevens Mfg. Co. Inc.	PO Annex 1007, Mansfield	Ohio
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Swartwout Div.-Crane Co.	Hooksett Ind. Park, Manchester	NH
Taylor Instrument Cos.	38 Ames St. Rochester 1	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
Texas Instruments Incorporated, Geosciences & Instrumentation Div.	3609 Buffalo Speedway, Houston 6	Tex
Thermo Electric Co. Inc.	Saddle Brook	NJ
Thermolyne Corp.	465 Huff St. Dubuque	Iowa
Thompson, Ltd. John	Wolverhampton, England	
Torwico Electronics, Inc.	1080 Morris Ave. Union	NJ
Trans-Sonics, Inc.	Burlington	Mass
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
Ulanet Co. George	413 Market St. Newark 5	NJ
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
U. S. Controls, Inc.	410 4th Ave. Brooklyn 15	NY
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
Victory Engineering Corp.	Box 373, Union	NJ
Weksler Instruments Corp.	195 E Merrick Rd. Freeport	NY
West Instrument Corp.	4363 W Montrose Ave. Chicago 41	Ill
Westinghouse Elec Corp. Pwr Control & Comm Dept.	East Pittsburgh	Pa
Wiegand Co., Edwin L.	7500 Thomas Blvd. Pittsburgh 8	Pa
Will Corp.	Box 1050, Rochester 3	NY
Yellow Springs Instrument Co. Inc.	Box 106, Yellow Springs	Ohio

CONTROLS—TIMING
See Also TIMERS

AB Scienta	Kvillegatan 9B, Box 366, Goetebong	Swed
A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 2766	Crown House, Aldwych, London WC2	Eng
Abrams Instrument Corp.	600 E Shiawassee St. Lansing	Mich
Adams & Westlake Co.	1025 Michigan St. Elkhart	Ind
Airmec, Ltd.	High Wycombe, Bucks, England	
Allen-Bradley Co.	136 W Greenfield Ave. Milwaukee 4	Wis
ALLIED RESEARCH ASSOCIATES, INC.		
Adv Pg 107	43 Leon St. Boston 15	Mass
Amglo Corp.	4333 Ravenswood Ave. Chicago 13	Ill
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Autotron Inc.	3629 N Vermilion St. Danville	Ill
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St. Rockford	Ill
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
BRISTOL CO. Adv Pg 110	Box 1790 NBG, Waterbury 20	Conn
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Controls Co. of America	9555 Soreng Ave. Schiller Park	Ill
Cramer Controls Corp.	Centerbrook	Conn
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Deltime, Inc.	139 Hoyt St. Mamaroneck	NY
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
Dietz Co. Inc., Henry G.	12-16 Astoria Blvd. Long Island City 2	NY
Eagle Signal Co. Div. The Gamewell Co.	202 20th St. Moline	Ill
Electronic Processes Corp.	436 Bryant St. San Francisco	Cal
Electronic Systems Development Corp.	1484 E Main St. Ventura	Cal
Engineered Electronics Co.	1441 E Chestnut Ave. Santa Ana	Cal
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Farmer Electric Products Co. Inc.	2300 Washington St. Newton Lower Falls	Mass
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Haskell Engineering Co.	1236 S Central Ave. Glendale 4	Cal
Haydon Mfg. Co.	245 E Elm St. Torrington	Conn
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Hydel, Inc.	223 Crescent St. Waltham 54	Mass
Industrial Timer Corp.	1407 McCarter Hwy. Newark 4	NJ
Integra, Leeds & Northrup Ltd.	Broad St. Birmingham 15, England	
Jordan Electronics	Alhambra	Cal
KEARFOTT DIV. GEN. PRECISION, INC.		
Adv Pg 269	1150 McBride Ave. Little Falls	NJ
Laboratory for Electronics, Inc.	1079 Commonwealth Ave. Boston	Mass
LEACH CORP. Adv Pg 253	18435 Susana Rd. Compton	Cal
Lytle Corp.	1404 San Mateo SE Albuquerque	NM
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Norman Laboratories, Emsc.	Williams Bay	Wis
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
Paragon Electric Co.	1635 N 12 St. Two Rivers	Wis
Partlow Corp.	Dept. NBG-58 New Hartford	NY
Patterson Moos Research Div. Lessona Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Robinson & Co. Ltd., D.	717 London Rd. Hounslow, Middlsx. Eng	
Sangamo Electric Co.	11 & Converse Sts. Springfield	Ill
Sciaky Bros. Inc.	4915 W 67 St. Chicago 38	Ill
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	

Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Temco Electronics Div. Temco Electronics & Missiles Co.	Box 6191, Dallas 22	Tex
Tork Time Controls, Inc.	60 MacQuesten Pkwy Mt. Vernon	NY
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
Ulanet Co. George	413 Market St. Newark 5	NJ
U. S. Controls, Inc.	410 4th Ave. Brooklyn 15	NY
Varo Mfg. Co. Inc.	2201 Walnut St. Garland	Tex
Venner Electronics Ltd.	Kingston By-Pass, New Malden, Surrey	Eng
Walkirt Co.	141 W Hazel St. Inglewood 3	Cal
Waltham Precision Instrument Co.	221 Crescent St. Waltham 54	Mass
Weksler Instruments Corp.	195 E Merrick Rd. Freeport	NY
Weltronic Co.	19500 W 8 Mile Rd. Detroit 41	Mich
Wilson & Co., G. C.	1915 8th Ave. Huntington	W Va

CONTROLS—VACUUM
See Also VACUUM EQUIPMENT & ACCESSORIES

ACF Industries, Inc.	750 3rd Ave. New York 17	NY
A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Airmatic Valve, Inc.	7313 Associate Ave. Cleveland 9	Ohio
ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	43 Leon St. Boston 15	Mass
Associated Valve Co.	Walnut & Center, North Wales	Pa
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St. Rockford	Ill
Beach-Russ Co.	420 Lexington Ave. New York 17	NY
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Bently Scientific Co.	2811 7th St. Berkeley 10	Cal
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
BRISTOL CO. Adv Pg 110	Box 1790 NBG, Waterbury 20	Conn
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1	Eng
Conoflow Corp.	2100 Arch St. Philadelphia 3	Pa
Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
Copes-Vulcan Div. Blaw-Knox Co.	939 W 26 St. Erie 4	Pa
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
DELTA DESIGN, INC. Adv Pg 225	7460 Girard Ave. La Jolla	Cal
Dietz Co. Inc., Henry G.	12-16 Astoria Blvd. Long Island City 2	NY
Edwards High Vacuum Inc.	Cumberland Rd. Burlington, Ont	Can
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Fielden Electronics Ltd.	Paston Rd. Wythenshawe, Man 22,	Eng
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Hastings-Raydist, Inc. 1-2	Newcomb Ave. Hampton	Va
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont	Canada
International Pump & Machine Works	81 Dorsa Ave. Livingston	NJ
Kieley & Mueller Co., Inc.	64 Genung St. Middletown	NY
Krantz Lufttechnik, H.	Aachen-Richterich, Germany	
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
Marcold Corp.	4201 Belmont Ave. Chicago 41	Ill
Minn-Honeywell Reg Co. Can Dev Div.	2753 4th Ave. S. Minpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. Adv Pg 136	80 Charlemont St. Newton Highlands 61	Mass
New York Air Brake Co.	230 Park Ave. New York 17	NY
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
Officine Galileo	Via Carlo Bini 44, Florence,	Italy
Process & Instruments	15 Stone Ave. Brooklyn 33	NY
Robertshaw-Fulton Controls Co. Fulton Sylphon Div.	Box 400, Knoxville 1	Tenn
Squires Co. C. E.	18502 Syracuse Ave. Cleveland 10	Ohio
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Swartwout Div. Crane Co.	Hooksett Ind. Park, Manchester	NH
Trans-Sonics, Inc.	Burlington	Mass
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
VACUUM-ELECTRONIC CORP. Adv Pg 260	Terminal Dr. Plainview	NY
Vacuum Instrument Corp.	Huntington Station	NY
Vacuum Specialties Co. Inc.	34 Linden St. Somerville 2	Mass
Wallace & Tiernan, Inc.	25 Main St. Belleville 9	NJ
Weksler Instruments Corp.	195 E Merrick Rd. Freeport	NY
WELCH MFG. CO., W.M. Adv Pg 214	1515 Sedgwick St. Chicago 10	Ill

CONTROLS—VISCOSITY

Assembly Products, Inc.	75 Wilson Mills Rd. Chesterland	Ohio
Automation Products, Inc.	3030 Max Roy St. Houston 24	Tex
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
Bendix Corp. Cincinnati Div.	3130 Wasson Rd. Cincnti 8	Ohio
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
General Controls Co.	801 Allen Ave. Glendale 1	Cal
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont	Canada
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Chmart Corp.	2236 Bogen St. Cincinnati 14	Ohio
SELO	Via Monfalcone, 12, Milano,	Italy
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY

CONVERTERS—ANALOG-TO-DIGITAL, DIGITAL-TO-ANALOG

AB Scienta	Kvillegatan 9B, Box 366, Goetsborg	Swed
ACF Industries, Inc.	750 3rd Ave. New York 17	NY
AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main,	Germany
A. E. I. Ltd.	33 Grosvenor Pl. London SW1,	Eng
ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	43 Leon St. Boston 15	Mass
American Bosch Arma Corp.	320 Fulton Ave. Hempstead	NY
Atomium Corp.	940 Main St. Waltham	Mass
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
Beckman Instruments, Inc. Systems Div.	325 N Muller Ave. Anaheim	Cal
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp,	Belgium
Bendix Corp. Bendix Computer Div.	5630 Arbor Vitae St. Los Angeles 45	Cal
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Chesapeake Instrument Corp.	Shadyside	Md
Colorado Research Corp.	Broomfield	Colo
Computer Control Co. Inc.	983 Concord St. Framingham	Mass
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Computer Systems Inc.	Culver Rd. Monmouth Junction	NJ
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Control Data Corp. Computer Div.	501 Park Ave. Minneapolis 15	Minn
Cubic Corp.	5575 Kearny Villa Rd. San Diego 11	Cal
Curtiss-Wright Corp. Electronics Div.	35 Market St. East Paterson	NJ
Data-Master Corp. Sub. The Bristol Co.	85 Hazel St. Glen Cove	NY
Datex Corp.	1307 S Myrtle Ave. Monrovia	Cal
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
Deltron, Inc.	4th & Cambria Sts. Philadelphia 33	Pa
Designers for Industry, Inc.	4241 Fulton Pkwy, Cleveland 9	Ohio
Detroit Controls Div. Amer. Rad. & Stand. San. Corp.	5900 Trumbull, Detroit 8	Mich
Digital Equipment Corp.	Maynard	Mass
Djeco Div. Djordjevic Engg. Co.	1933 N Damen, Chicago 47	Ill
Dychro Corp.	49 Walnut St. Wellesley 81	Mass
Dynac Div. Hewlett-Packard Co.	395 Page Mill Rd. Palo Alto	Cal
E. M. L-Conor Electronics Ltd.	Box 595, Dartmouth, N.S.	Canada
E. M. I. ELECTRONICS LTD. Adv Pg 96	Hayes, Middlesex,	England
Eclipse Pioneer Div. Bendix Corp.	Teterboro	NJ
ELDORADO ELECTRONICS CO. Adv Pg 223	2621 10th St. Berkeley 10	Cal
Electro-Mechanical Research, Inc.	Box 3041, Sarasota	Fla
ELECTRONIC ASSOCIATES, INC. Adv Pg 55	Long Branch	NJ
Electromechanical Products	Markham Rd. Agincourt, Ont.	Can.
Electronic Systems Development Corp.	1484 E Main St. Ventura	Cal
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Epsco, Inc.	275 Massachusetts Ave. Cambridge 39	Mass
Ericsson Telephones Ltd.	High Church St. New Basford, Nott.	Eng
Fairchild Camera & Instr. Corp. Defense Prods Div.	300 Robbins Ln. Syosset	NY
Fernsehgerate OHG	68-72 Jahnstr. Berlin-Britz,	Germany
Ferranti Electric, Inc.	30 Rockefeller Pl. New York 20	NY
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave. LIC 1	NY
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
FRANKLIN ELECTRONICS, INC. Adv Pg 263	4th St. Bridgeport	Pa
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine,	France
Glenco Corp.	212 Durham Ave. Metuchen	NJ
Graflex, Inc.	3750 Monroe Ave. Rochester 3	NY
Gyra Electronics Corp.	Box 184 La Grange	Ill
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
HARVEY WELLS ELECTRONICS, INC. Adv Pg 6	14 Huron Dr. Natick	Mass
Hewlett-Packard Co.	1501 Page Mill Rd. Palo Alto	Cal
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1,	Eng
Holley Carburetor Co.	11955 E 9 Mile Rd. Warren	Mich
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont	Canada
Instrument Development Labs. Inc.	67 Mechanic St. Attleboro	Mass

Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	1150 McBride Ave. Little Falls	NJ
Kellogg Switchboard & Supply Co.	6650 S Cicero Ave. Chicago 38	Ill
Kin Tel Div. Cohu Electronics, Inc.	5725 Kearny Villa Rd. San Diego 12	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Laboratory for Electronics, Inc.	1079 Commonwealth Ave. Boston	Mass
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Librascope Div. Gen Precision, Inc.	Glendale 1	Cal
Link Div. - Gen. Precision, Inc.	Binghamton	NY
Lintronic Ltd.	47 CharingCross Rd. London, WC2, Eng	
Litton Industries	336 N Foothill Rd. Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Meriam Instrument Co.	10920 Madison Ave. Cleveland 2	Ohio
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Moseley Co., F. L.	409 N Fair Oaks Ave. Pasadena	Cal
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
Navigation Computer Corp.	1621 Snyder Ave. Philadelphia 45	Pa
New Electronic Products Ltd.	360 Kennington Rd. London, SE11, Eng	
Newman Industries Ltd.	Yate, Bristol, England	
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEAR DATA, INC. Adv Pg 237	911 Regent St Madison	Wis
Pacific Electro-Nuclear Corp.	9520 Jefferson Blvd. Culver City	Cal
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
Potter Aeronautical Corp.	Route #22, Union	NJ
Racal Instruments Ltd.	Western Rd. Bracknell, Berks, England	
RADIATION COUNTER LABS. INC. Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Ramsey Research	Box 269, San Pedro	Cal
Raytheon Co. Equipment Div.	1089 Washington St. West Newton	Mass
Rosemount Engineering Co.	4900 W 78 St. Mnpls. 24	Minn
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Solartron Electronic Group Ltd.	Victoria Rd. Farnborough, Hants, Eng	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Systron-Donner Corp.	950 Galindo St. Concord	Cal
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
Temco Electronics Div. Temco Electronics & Missiles Co.	Box 6191, Dallas 22	Tex
Texas Instruments Incorporated, Geosciences & Instrumentation Div.	3609 Buffalo Speedway, Houston 6	Tex
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
Trak Electronics Co. Div. CGS Labs. Inc.	Wilton	Conn
Transformer Electronics Co.	Boulder Ind. Park, Boulder	Colo
VICTOREEN INSTRUMENT CO. Adv. Pgs. 112, 113	5809-11 Hough Ave. Cleveland 3	Ohio
Waltham Electronics Corp.	751 Main St. Waltham	Mass
Wang Laboratories	12 Huron Dr. Natick	Mass

CONVERTERS—ROTARY

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Allis Co., Louis	427 E Stewart St. Milwaukee 7	Wis
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Carter Motor Co.	2711 W George St. Chicago 18	Ill
Croydon Engineering Co. Ltd.	Commerce-Purley Way, Croydon, Surrey, England	
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
Digitran Co. Div. Endevco Corp.	660 S Arroyo Pkwy. Pasadena	Cal
Elcor Div. Scranton Corp.	4059 W North Ave. Chicago 39	Ill
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Ferranti Electric, Inc.	30 Rockefeller Pl. New York 20	NY
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Georator Corp.	315 Tudor Ln. Manassas	Va
Graflex, Inc.	3750 Monroe Ave. Rochester 3	NY
Great Lakes Electric Mfg. Co.	17 S Des Plaines St. Chicago 6	Ill
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	1150 McBride Ave. Little Falls	NJ
LEACH CORP. Adv Pg 253	18435 Susana Rd. Compton	Cal
Magnetic Amplifiers Div. Siegler Corp. 1-3-4-5	632 Tinton Ave. New York 55	NY
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Otter Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
Pesco Products Div. Borg-Warner Corp.	24700 N Miles Rd. Bedford	Ohio
Sangamo Electric Co.	11 & Converse Sts. Springfield	Ill
Struthers Wells Corp.	Warren	Pa
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276B	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Transonic, Inc.	808 16th St. Box 59, Bakersfield	Cal
Varo Mfg. Co. Inc.	2201 Walnut St. Garland	Tex
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

CONVERTERS—TIME-TO-PULSE HEIGHT

See ANALYZERS—TIME-OF-FLIGHT

COOLANTS—REACTOR

See Specific Metal Under METALS, ALLOYS & COMPOUNDS
MODERATORS—ORGANIC
WATER—HEAVY

COOLING TOWERS

American Air Filter Co.	215 Central Ave. Louisville 8	Ky
American-Standard Industrial Div.	Detroit 32	Mich
Carrier Corp.	Carrier Pkwy. Syracuse 1	NY
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Fluor Corp. Ltd.	12000 E Washington Blvd. Whittier	Cal
Fluor Products Co.	Box 1267, Santa Rosa	Cal
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can.	
GREAT LAKES CARBON CORP. Adv Pg 31	18 E 48th St. New York	NY
Harvey & Co. (London) Ltd., G. A.	Woolwich Rd. London, SE7, England	
Marley Co.	222 W Gregory Blvd. Kansas City 14	Mo
Midland Heating & Ventilation Co. Ltd.	Bedford Rd. Birmingham 11, England	
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alamoda	Cal
Philadelphia Gear Corp.	King of Prussia	Pa
Pritchard & Co., J. F.	4625 Roanoke Pkwy. Kansas City	Mo
Process Equipment Co. Inc.	71 Forest St. Brockton	Mass
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	

CORE STRUCTURALS—REACTOR

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
AEROJET-GENERAL NUCLEONICS, Adv Pg 119	Box 77, San Ramon	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
American Welding & Mfg. Co.	555 Dietz Rd. Warren	Ohio
Atomics International Div. NAA	Box 309, Canoga Park	Cal
AVERY & SAUL CO. Adv Pg 8	115 Rindge Ave. Cambridge	Mass
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	Dept N B, Philadelphia 42	Pa
Barnes Co., W. F. & John	301 S Water St. Rockford	Ill
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Brusselles 1, Belgium	
Canadian GE Co. Ltd.	107 Park St. Petersborough, Ont Can	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Farrel-Birmingham Co. Inc.	Ansonia	Conn
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Industrial Transformer Corp.	Gouldsboro	Pa
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
L & S Machine Co. Inc.	RD2, Box 317 Latrobe	Pa
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Marvel-Schebler Products Div. Borg-Warner Corp.	2195 S Elwin Rd. Decatur	Ill
Mason, Shaver & Rhoades, Inc.	Box 551, Irwin	Pa
Minnesota Mining & Mfg. Co.	900 Bush Ave. St.Paul 6	Minn
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Oregon Metallurgical Corp.	Box 484, Albany	Ore

PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	PO Drawer E, Alameda	Cal
S. I. A. C. Adv Pg 276T	Via S. Sebastiano 2, Genoa, Italy	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 898, Attleboro	Mass
Thermal Refractories Corp.	4501 Dell Ave, North Bergen	NJ
Thompson, Ltd., John	Wolverhampton, England	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	23555 Euclid Ave, Cleveland 17	Ohio
TOKYO SHIBAURA ELECTRIC CO., LTD.		
Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
United Transformer Corp.	150 Varick St, New York	NY
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Willamette Iron & Steel Co.	280 NW Front Ave, Portland	Ore

CORES—REACTOR
See *Also* FUEL ELEMENTS

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave, New York 16	NY
AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St, New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Canadian GE Co. Ltd.	107 Park St, Peterborough, Ont Can	
Combustion Engineering, Inc.	200 Madison Ave, New York 16	NY
Cross-Malaker Laboratories	191 Mill Ln, Mountainside	NJ
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd, Schenectady 5	NY
GREAT LAKES CARBON CORP. Adv Pg 31	18 E 48th St, New York	NY
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln, Langley, Nr. Slough, Bucks	Eng
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
MARTIN CO. NUCLEAR DIV., Adv Pg 5	Mail G-3037 Baltimore 3	Md
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
Nooter Corp.	1424 S 3rd St, St. Louis 66	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St, White Plains	NY
Nuclear Metals Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave, New Haven	Conn
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd, Bayside	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 898, Attleboro	Mass
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.		
Adv. Pgs. 138, 139, 144	Cheswick	Pa

COUNTER GASES
See GASES—COUNTER

COUNTERS—BINARY OR DECADE
See SCALERS—BINARY
SCALERS—DECADE
SCALING TUBES—DECADE

COUNTERS—ELECTROMECHANICAL, DIRECT-READING

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
Abrams Instrument Corp.	600 E Shiawassee St, Lansing	Mich
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd, Valley Stream	NY
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Avien, Inc.	58-15 Northern Blvd, Woodside 77	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd, Cambridge 38	Mass
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bowmar Instrument Corp.	8000 Bluffton Rd, Fort Wayne	Ind
Carter & Co. Ltd., B. & F., Albion Wks.	Waterloo St, Bolton Lancs, Eng	
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Colorado Research Corp.	Broomfield	Colo
Cramer Controls Corp.	Centerbrook	Conn
Digitran Co. Div. Endevco Corp.	660 S Arroyo Pkwy, Pasadena	Cal
Durant Mfg. Co.	1900 N Buffum St, Milwaukee 1	Wis
Electric Tachometer Corp.	68 & Upland Sts, Phila 42	Pa
Farnell Instruments, Ltd. Light Ind. Est.	York Rd, Wetherby, England	
Fernsteuergerate OHG	68-72 Jahnstr, Berlin-Britz, Germany	
General Controls Co.	801 Allen Ave, Glendale 1	Cal
Graflex, Inc.	3750 Monroe Ave, Rochester 3	NY
HARVEY WELLS ELECTRONICS, INC.		
Adv Pg 6	14 Huron Dr, Natick	Mass
Hewlett-Packard Co.	1501 Page Mill Rd, Palo Alto	Cal
Interstate Electronics Corp.	707 E Vermont Ave, Anaheim	Cal
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
KEARFOTT DIV. GEN. PRECISION, INC.		
Adv Pg 269	1150 McBride Ave, Little Falls	NJ
Kellogg Switchboard & Supply Co.	6650 S Cicero Ave, Chicago 38	Ill
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Labgear Ltd. Nucleonics Div.	Cromwell Rd, Cambridge, England	
LANDIS & GYR, INC. Adv Pg 253	45 W 45 St, New York 36	NY
Leemath, Inc.	Oak Dr, Syosset	NY
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Litton Industries	336 N Foothill Rd, Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Mast Development Co. Inc.	2212 E 12th St, Davenport	Iowa
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
Model Engineering & Mfg. Inc.	50 Frederick St, Huntington	Ind
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St, Brooklyn 31	NY
Patterson Moos Research Div. Lessons Corp.	90-28 Van Wyck Expwy, Jamaica 18	NY
Photocon Research Products	421 N Altadena Dr, Pasadena	Cal
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Kr, Lubbecke, Westfalen, Germany	
Presin Co.	2014 Broadway, Santa Monica	Cal
Sciaky Bros. Inc.	4915 W 67 St, Chicago 38	Ill
Siemens-Reiniger-Werke AG.	Luipoldstr. 45, Erlangen, Germany	
Streeter-Amet Co.	Grayslake	Ill
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Telecro Industries Corp.	35-16 37th St, LIC 1	NY
Trott Electronics, Inc.	412 Smith St, Rochester 8	NY
Veeder-Root, Inc.	70 Sargeant St, Hartford 2	Conn
Venner Electronics Ltd.	Kingston By-Pass, New Malden, Surrey, Eng.	
Waltham Precision Instrument Co.	221 Crescent St, Waltham 54	Mass

COUNTERS—ELECTROMECHANICAL, PRINTING

Aveley Electric, Ltd.	S. Ockendon, Essex, England	
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd, Cambridge 38	Mass
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Carter & Co. Ltd., B. & F., Albion Wks.	Waterloo St, Bolton Lancs, Eng	
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Digitran Co. Div. Endevco Corp.	660 S Arroyo Pkwy, Pasadena	Cal
Farnell Instruments, Ltd. Light Ind. Est.	York Rd, Wetherby, England	
Fernsteuergerate OHG	68-72 Jahnstr, Berlin-Britz, Germany	
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276M	Erlangen-Bruck, Germany	
General Controls Co.	801 Allen Ave, Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd, Schenectady 5	NY
Graflex, Inc.	3750 Monroe Ave, Rochester 3	NY
Hewlett-Packard Co.	1501 Page Mill Rd, Palo Alto	Cal
Interstate Electronics Corp.	707 E Vermont Ave, Anaheim	Cal
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Labgear Ltd. Nucleonics Div.	Cromwell Rd, Cambridge, England	
LANDIS & GYR, INC. Adv Pg 253	45 W 45 St, New York 36	NY
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Litton Industries	336 N Foothill Rd, Beverly Hills	Cal
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St, Brooklyn 31	NY
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Kr, Lubbecke, Westfalen, Germany	
Presin Co.	2014 Broadway, Santa Monica	Cal
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS.		
Adv Pg 70	Front & Cooper Sts, Camden 2	NJ
SHARP LABORATORIES, INC.		
Adv Pg 248	Box 1302, La Jolla	Cal
Siemens-Reiniger-Werke AG.	Luipoldstr. 45, Erlangen, Germany	
Streeter-Amet Co.	Grayslake	Ill
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Victor Adding Machine Co.	3900 N Rockwell St, Chicago 18	Ill

COUNTERS—ELECTRONIC
See SCALERS

COUNTERS—PULSE

Abrams Instrument Corp.	600 E Shiawassee St, Lansing	Mich
Advance Components Ltd.	Roebuck Rd, Hainault, Essex, England	
Alden Electronic & Impulse Recording Equip. Co.	Westboro	Mass
AMPEREX ELECTRONIC CORP.		
Adv Pg 145	230 Duffy Ave, Hicksville	NY

ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	**Charleroi, Belgium**	
ATOMIC ACCESSORIES, INC. Adv Pg 214	**811 W Merrick Rd. Valley Stream**	**NY**
ATOMIC DEVELOPMENT & MACHINE CORP.		
Adv Pg 128	**15-04 130 St. College Point 56**	**NY**
Automatic Timing & Controls, Inc.	King of Prussia	Pa
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd. Santa Ana	Cal
Bowmar Instrument Corp.	8000 Bluffton Rd. Fort Wayne	Ind
BRISTOL CO. Adv Pg 110	**Box 1790 NBG, Waterbury 20**	**Conn**
Computer Control Co. Inc.	983 Concord St. Framingham	Mass
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Computer Systems Inc.	Culver Rd. Monmouth Junction	NJ
Crosby-Teletronics Corp.	54 Kinkel St. Westbury	NY
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Datex Corp.	1307 S Myrtle Ave. Monrovia	Cal
Digitran Co. Div. Endevco Corp.	660 S Arroyo Pkwy. Pasadena	Cal
E. M. L-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
Eagle Signal Co. Div. The Gamewell Co.	202 20th St. Moline	Ill
Eberline Instrument Corp.	Box 279, Santa Fe	NM
ELDORADO ELECTRONICS CO.		
Adv Pg 223	**2821 10th St. Berkeley 10**	**Cal**
Electro-Pulse, Inc.	6711 S Sepulveda Blvd. L A 45	Cal
Electronic Systems Development Corp.	1484 E Main St. Ventura	Cal
Engineered Electronics Co.	1441 E Chestnut Ave. Santa Ana	Cal
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Erie Resistor Corp.	644 W 12th St. Erie	Pa
Franklin Systems, Inc.	2734 Hillsboro Rd. W Palm Beach	Fla
General Controls Co.	801 Allen Ave. Glendale 1	Cal
HARVEY WELLS ELECTRONICS, INC.		
Adv Pg 6	**14 Huron Dr. Natick**	**Mass**
Hewlett-Packard Co.	1501 Page Mill Rd. Palo Alto	Cal
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
ISOTOPE DEVELOPMENTS LTD.		
Adv Pg 239	**Bath Rd. Reading, Berks, England**	
JOHNSTON LABS. INC., WILLIAM H.,		
Adv Pg 90	**3617 Woodland Ave. Baltimore 15**	**Md**
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Marshall of Cambridge Electronics Ltd.	The Aerodrome, Cambridge, England	
Navigation Computer Corp.	1621 Snyder Ave. Philadelphia 45	Pa
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	**2 Richwood Pl. Denville**	**NJ**
NUCLEAR-ELECTRONICS CORP.		
Adv Pg 6	**2925 N Broad St. Philadelphia 32**	**Pa**
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	**196 Degraw St. Brooklyn 31**	**NY**
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
Potter Aeronautical Corp.	Route #22, Union	NJ
Racal Instruments Ltd.	Western Rd. Bracknell, Berks, England	
RADIATION COUNTER LABS. INC.		
Adv Pg 39	**5122 W Grove St. Skokie**	**Ill**
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SELO	Via Monfalcone, 12, Milano, Italy	
SHARP LABORATORIES, INC.		
Adv Pg 248	**Box 1302, La Jolla**	**Cal**
Sigma Instruments, Inc.	170 Pearl St. South Braintree 85	Mass
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Systron-Donner Corp.	950 Galindo St. Concord	Cal
TECHNICAL ASSOCIATES, Adv Pg 41	**140 W Providencia Ave. Burbank**	**Cal**
TECHNICAL MEASUREMENT CORP.		
Adv Pg 215	**441 Washington Ave. North Haven**	**Conn**
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd. Waltham 54**	**Mass**
Transformer Electronics Co.	Boulder Ind. Park, Boulder	Colo
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
Veeder-Root, Inc.	70 Sargeant St. Hartford 2	Conn
Venner Electronics Ltd.	Kingston By-Pass, New Malden, Surrey, Eng	
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walkirt Co.	141 W Hazel St. Inglewood 3	Cal
WESTINGHOUSE ELECTRIC CORP. ELECTRONIC TUBE DIV.		
Adv. Pgs. 82, 83, 138, 139	**Box 284, Elmira**	**NY**

COUNTERS—RADIATION
See Also **CHAMBERS—FISSION**
CHAMBERS—IONIZATION
DETECTORS—BURST-SLUG
DOSIMETERS—RADIATION
GAGES—THICKNESS OR DENSITY, RADIOACTIVITY
GASES—COUNTER

GEIGER-MULLER TUBES
MONITORS—RADIATION
PHOTOMULTIPLIER TUBES
SAMPLE CHANGERS
SCINTILLATORS
WINDOWS—COUNTER

1. *ALPHA*
2. *BETA*
3. *FLOW*
4. *GAMMA*
5. *NEUTRON*
6. *PROBING, MEDICAL*
7. *PROPORTIONAL*
8. *SCINTILLATION*
9. *SEMICONDUCTOR DETECTORS*
10. *X-RAY*

A.E.I. Ltd. 1-2-4	33 Grosvenor Pl. London SW1, Eng	
Airmec, Ltd. 1-2-4	High Wycombe, Bucks, England	
ALLIED RESEARCH ASSOCIATES, INC. 2-4-5-8-10		
Adv Pg 107	**43 Leon St. Boston 15**	**Mass**
American Electronics Inc. Nuclear Div. 4	9459 W Jefferson Blvd. Culver City	Cal
AMERICAN TRADAIR CORP. SUB EKCO ELECTRONICS, LTD. 1-2-3-4-5-6-8,		
Adv Pg 240	**34-01 30th St. LIC 6**	**NY**
AMPEREX ELECTRONIC CORP. 1-2-3-4-5-6-7-8-9-10,		
Adv Pg 145	**230 Duffy Ave. Hicksville**	**NY**
ANTON ELECTRONIC LABS. INC. 1-2-4-5-6-7,		
Adv Pg 261	**1226-38 Flushing Ave. Brooklyn 37**	**NY**
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 1-2-3-4-5-7-8-10,		
Adv Pg 276AA	**Charleroi, Belgium**	
Atomasters-Suntaine Corp. 1-2-3-4-5-6-7-8	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. 1-2-3-4-5-6-7-8-10,		
Adv Pg 214	**811 W Merrick Rd. Valley Stream**	**NY**
ATOMIC DEVELOPMENT & MACHINE CORP. 1-2-3-4-5-6-7-8,		
Adv Pg 128	**15-04 130 St. College Point 56**	**NY**
Atomium Corp. 4-6-8	940 Main St. Waltham	Mass
BAIRD-ATOMIC, INC. 3-8-9-10, Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Ball Brothers Research Corp. 8	Boulder Industrial Pk. Boulder	Colo
Bell Telephone Mfg Co. Nuc Energy Dv. 1-2-3-4-5	Berkenrodelei 75, Antwerp, Belgium	
Biotronics Labs. Inc. 1-2-4-5-8	Box 744, Sta. B, Montreal 2, P.Q. Can	
Borg-Warner Controls Div. Borg-Warner Corp. 1-2-3-4-5-7-8	3300 Newport Blvd. Santa Ana	Cal
Budd Co. Instruments Div. 4	Box 245, Phoenixville	Pa
Burndept Ltd. 1-2-4-5-6-8	West St. Erith, Kent, Eng	
C B S LABORATORIES, 5-8, Adv Pg 117	**High Ridge Rd. Stamford**	**Conn**
Colorado Research Corp. 8	Broomfield	Colo
Computer Measurements Co. 2-4-8	12970 Bradley Ave. Sylmar	Cal
CONTROLS FOR RADIATION, INC. 9,		
Adv Pg 219	**130 Alewife Brook Pkwy Cambridge 40**	**Mass**
CONVAIR, DIV. GEN. DYNAMICS CORP. 4-5-7-8,		
Adv Pg 104	**Box 748, Fort Worth**	**Tex**
Cosmic Radiation Labs., Inc. 1-2-3-4-8	1645 Montauk Hwy. Bellport	NY
Curtis Nuclear Corp. 1-2-4-5-6-8-9-10	1645 W 135th St. Gardena	Cal
E. M. I. ELECTRONICS LTD. 1-2-4-8		
Adv Pg 96	**Hayes, Middlesex, England**	
Eberline Instrument Corp. 1-2-3-4-5-6-7-8	Box 279, Santa Fe	NM
Ekco Electronics Ltd Ekco Wks 1-2-4-5-8	Southend-on-Sea, Essex, England	
Electromechanical Products 1-2-4-5-8-9	Markham Rd. Agincourt, Ont. Can.	
ELECTRONIC ASSOCIATES, LTD. 1-2-4-8,		
Adv Pg 260	**4616 Yonge St. Willowdale, Ont. Can.**	
Electronic Instruments Ltd. 4-10	Lower Mortlake Rd. Richmond, Surrey	Eng
Engineered Electronics Co. 9	1441 E Chestnut Ave. Santa Ana	Cal
Ericsson Telephones Ltd. 1-2-3-4-5-8	High Church St. New Basford, Nott. Eng	
Ferranti-Packard Electric Ltd. 2-4	Industry St. Toronto 15, Ontario, Canada	
Fleming Radio (Developments) Ltd. 3	Caxton Way, Stevenage, Herts, England	
FORRO SCIENTIFIC CO. 1-2-3-7,		
Adv Pg 236	**833 Lincoln St. Evanston**	**Ill**
FRIESEKE & HOEPFHER GmbH, 1-2-3-4-5-7-8,		
Adv Pg 276N	**Erlangen-Bruck, Germany**	
Gamma Industries, Inc. 4-8	Box 2543, Baton Rouge	La
Gelman Instrument Co. 1-2-4-10	106 N Main St. Chelsea	Mich
General Nuclear Co. 1-2-4-5-6-8	4957 Hollywood Blvd. Hollywood 27	Cal
Gilardoni S.p.A. 1-2-3-4-5-6-7-8-10	Via Statale, Mandello Lario, Como	Italy
HAMNER ELECTRONICS CO. 1-2-3-4-5-6-7-8-9-10,		
Adv. Pg. 2nd Cover	**Box 531, Princeton**	**NJ**
HARSHAW CHEMICAL CO. 4-5-8-10,		
Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Hayward Scientific Glass Corp. 8	217 N Magnolia Ave. Whittier	Cal
Hazleton-Nuclear Science Corp. 2	4062 Fabian Way, Palo Alto	Cal
Heath Co. 2-4	Benton Harbor	Mich
Hilger & Watts, Ltd. 8	98 St. Pancras Way, London NW 1, Eng	
Hitachi, Ltd.	1-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS. 9,		
Adv Pg 74	**Box 90515, Intl. Airpt. Sta. LA 45**	**Cal**
Instrument & Development Prods Co. Inc. 1-2-3-4-7-8	355 W 109th Pl. Chicago	Ill
Instruments, Inc.	Box 586, Tulsa	Okla

Interstate Electronics Corp, 1-2-3-4-5-6-7-8-9-10 ..... 707 E Vermont Ave, Anaheim ..... Cal
INTERTECHNIQUE S.A. 1-2-3-4-5-6-7-8, Adv Pg 276S ..... 81 rue Escudier, Boulogne-Billancourt, Seine, France
ISOTOPE DEVELOPMENTS LTD. 1-2-4-8-10, Adv Pg 239 ..... Bath Rd. Reading, Berks, England
ISOTOPE SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, 1-2-4-5-7-8, Adv Pg 128 ..... 170 W Providencia, Burbank ..... Cal
ISOTOPES INC. 1-2-3-4-7-8, Adv Pg 116 ..... 123 Woodland Ave. Westwood ..... NJ
JOHNSON & ASSOC. INC., WILLIAM B. 1-2-3-4-5-7-8, Adv Pg 255 ..... Box 415 Mountain Lakes ..... NJ
JOHNSTON LABS. INC., WILLIAM H. 1-2-3-4-5-6-7-8-9-10, Adv Pg 90 ..... 3617 Woodland Ave. Baltimore 15 ..... Md
Jordan Electronics, 2-4 ..... Alhambra ..... Cal
Kahl Scientific Instrument Corp, 1-2-3-4-5-6-7-8 ..... Box 1166 El Cajon ..... Cal
Kobe Kogyo Corp, 1-2-3-4-5-6-7-8 ..... 1-5 Wadayama-Dori, Kobe, Japan
Labgear Ltd, Nucleonics Div, 1-2-3-4-5-6-7-8-9 ..... Cromwell Rd, Cambridge, England
Lab. Prof. Dr. Berthold, 3-4-7-10 ..... Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany
Land Air Inc. 1-4-8 ..... 7444 W Wilson Ave. Chicago 31 Ill
LANDIS & GYR, INC. 1-2, Adv Pg 253 ..... 45 W 45 St. New York 36 ..... NY
La Radiotechnique, 1-2-3-4-5-6-7-8-9-10 ..... 130, Av. Ledru-Rollin-Paris 11, France
L'Electronique Appliquee 1-2-3-4-5-6-7 ..... 25 rue du Docteur Finlay, Paris 15, Fr
LOCKHEED NUCLEAR PRODUCTS, 1-2-3-4-5-6-7-8-9, Adv. Pg. 3rd Cover ..... 3272 Peachtree Rd. NE, Atlanta 5 ..... Ga
M.B.L.E. 7, Adv. Pgs. 259, 276V ..... 80 Rue des Deux Gares, Brussels 7, Belg
MEILLON, INC., GEORGE T. 1-2-3-5-6-8, Adv Pg 252 ..... 132 Nassau St. New York 38 ..... NY
Menlo Research Laboratory, 4-8 ..... 1627 Bay Rd. East Palo Alto ..... Cal
Miles Hivolt Ltd. 1-2-3-5-6-7-8-9-10 ..... Old Shoreham Rd, Shoreham-by-Sea, Sussex, England
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, 3, Adv. Pgs. 26,27,115 ..... Wayne & Windrim Aves. Phila. 44 ..... Pa
Mitchell Radiation Products Corp. 10 ..... E Washington St. Norristown ..... Pa
Neutronics Laboratory, 5 ..... Tinley Park Ill
Nihon-Musen, K. K. 1-2-3-4-6-7-8 ..... 930 Kamirenjaku, Mitaka, Tokyo, Jap
Norair, Div. Northrop Corp, 10 ..... 1001 E Broadway, Hawthorne ..... Cal
NUCLEAR-CHICAGO CORP. 1-2-3-4-5-6-7-8-10, Adv. Pgs. 80,81 ..... 345 E Howard Ave. Des Plaines Ill
NUCLEAR CORP. OF AMERICA INSTRUMENT & RESEARCH DIV. 1-2-3-4-5-6-7-8, Adv Pg 116 ..... 2 Richwood Pl. Danville ..... NJ
NUCLEAR DATA, INC. 4-8, Adv Pg 237 ..... 911 Regent St. Madison ..... Wis
Nuclear Development Lab. 1-2-4-5-7 ..... Box 7034, Kansas City ..... Mo
NUCLEAR-ELECTRONICS CORP. 1-2-4-7-8, Adv Pg 6 ..... 2925 N Broad St. Philadelphia 32 ..... Pa
Nuclear Engineering Co Inc 1-2-4-5-7-8 ..... 65 Ray St. Box 21B, Pleasanton ..... Cal
Nuclear Enterprises (GB) Ltd. 1-2-3-4-5-6-8-10 ..... Bankhead Medway, Edinburgh 11, Scot
NUCLEAR ENTERPRISES LTD. 1-2-3-4-5-6-8-10, Adv Pg 238 ..... 550 Berry St. Winnipeg 12, Manitoba
NUCLEAR MEASUREMENTS CORP. 1-2-3-4-6-7-8, Adv Pg 66 ..... 2460 N Arlington Ave. Indianapolis 18 ..... Ind
NUCLEAR-OHIO, INC. 1-2-3-4-5-6-7-8-10, Adv Pg 54 ..... 27105 Knickerbocker Rd. Cleveland 40 ..... Ohio
Nuclear Research Applications Ltd, 1-2-4-7-8 ..... Bell St, Reigate, Surrey, England
Nuclear Research Corp, 4-8 ..... Southampton ..... Pa
NUCLEAR SCIENCE & ENGINEERING CORP. 2, Adv Pg 216 ..... Box 10901, Pittsburgh 36 ..... Pa
NUCLEONIC CORP. OF AMERICA, 1-2-3-4-5-7-8-10, Adv Pg 232 ..... 196 Degraw St. Brooklyn 31 ..... NY
Ohmart Corp. 2-4 ..... 2236 Bogen St. Cincinnati 14 ..... Ohio
PACKARD INSTRUMENT CO. INC. 1-2-3-4-7-8, Adv Pg 227 ..... Box 428, La Grange Ill
Panax Equipment, Ltd. 1-2-3-4-8 ..... Holmethorpe Ind. Est. Redhill, Surr. Eng
Peebles & Co Ltd, Bruce, Electronics Div 1-2-3-7-8 ..... E Pilton, Edinburgh 5, Scotland
Philips Electronic Instruments, 7-8-10 ..... 750 S Fulton Ave. Mt. Vernon ..... NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 1-2-3-4-5-6-7-8-10, Adv Pg 267 ..... Eindhoven, The Netherlands
Physique Industrielle S. A. 1-2-3-4-8 ..... 66 Bvd. de l'Imperatrice Brussels I, Belg
Picker & Harting Vertrieb GMBH, 10 ..... Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany
PICKER X-RAY CORP. 1-2-3-4-6-7-8-10, Adv Pg 109 ..... 25 S Broadway, White Plains ..... NY
PILOT CHEMICALS, INC. 1-2-3-4-5-8, Adv Pg 66 ..... Dept. H, 36 Pleasant St. Watertown 72 ..... Mass
Plessey Nucleonics Ltd 1-2-3-4-5-6-7-8-9 ..... Weedon Rd, Northampton, England
Poetschke & Co. oHG 1-2-3-4-5-7-8-10 ..... Box 2766, Frankfurt/Main 1, Germany
Precision Radiation Instruments, 1-2-4-8 ..... 5810 S Normandie, Los Angeles 44 ..... Cal
Quartz & Silice, 1-2-4-5-8-10 ..... 8 rue d'Anjou, Paris, France
RADIATION COUNTER LABS. INC. 1-2-3-4-5-6-7-8-9-10, Adv Pg 39 ..... 5122 W Grove St. Skokie Ill
RADIATION INSTRUMENT DEVELOPMENT LAB. 1-2-3-4-5-7-8-10, Adv. Pgs. 129, 276I ..... 61 E North Ave. Northlake Ill
Radiation Recording Instruments, 1-2-4-6-10 ..... Box 1066, Sta. B, Montreal 2, Que Can
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS. 7-8-10, Adv Pg 70 ..... Front & Cooper Sts. Camden 2 ..... NJ
Radionics Inc. 8-9 ..... Lafayette & Water Sts. Norristown ..... Pa
RADIUM CHEMICAL CO. INC. 1-9, Adv Pg 14 ..... 161 E 42nd St. New York 17 ..... NY
REUTER-STOKES ELECTRONIC COMPONENTS, INC. 1-2-3-4-5-7-10, Adv Pg 226 ..... 2149 Hamilton Ave. Cleveland 14 ..... Ohio
S. A. L. P. 1-2-3-4-5-6-7-8-10 ..... 38 Rue Gabriel Crie, Malakoff, Seine ..... Fr
SELO, 1-2-3-4-5-7-8 ..... Via Monfalcone, 12, Milano, Italy
SEMI-ELEMENTS INC. 8, Adv Pg 98 ..... Saxonburg Blvd. Saxonburg ..... Pa
Servonuclear Corp, 1-2-3-4-5-7-8 ..... 29-21 Astoria Blvd, Long Island City ..... NY
SHARP LABORATORIES, INC. 1-2-3-4-7-8-9, Adv Pg 248 ..... Box 1302, La Jolla ..... Cal
Siemens & Halske AG 1-2-3-4-5-7-8-10 ..... Rheinbruckenstr. 50, Karlsruhe, Germany
Siemens-Reiniger-Werke AG, 1-2-3-4-5-6-7-8-9-10 ..... Luipoldstr. 45, Erlangen, Germany
Simmonds Ltd., L. E. 4-10 ..... Byron Rd, Harrow, Middlesex, England
SOLID STATE RADIATIONS INC. 1-2-3-4-5-6-9, Adv Pg 44 ..... 9925 W Jefferson Blvd. Culver City ..... Cal
Stromberg-Carlson Div. Gen. Dynamics Corp. 1-2-3-4-5-6-7-8-9 ..... 100 Carlson Rd. Rochester ..... NY
TECHNICAL ASSOCIATES, 1-2-3-4-5-6-7-8-10, Adv Pg 41 ..... 140 W Providencia Ave. Burbank ..... Cal
TECHNICAL MEASUREMENT CORP. 1-2-4-8, Adv Pg 215 ..... 441 Washington Ave. North Haven ..... Conn
Telechrome Mfg. Corp, 1-2-4-10 ..... 28 Ranick Dr. Amityville ..... NY
TERMINAL RADIO INTERNATIONAL LTD. 1-2-3-4-5-6-7-8-9-10, Adv. Pgs. 276-O-276R ..... 240 W 17th St. New York 11 ..... NY
TEXAS NUCLEAR CORP. 5-7, Adv. Pgs. 228, 229 ..... Box 9267, Allendale Sta. Austin 17 ..... Tex
TOKYO SHIBAURA ELECTRIC CO., LTD. 1-10, Adv Pg 276D ..... 12 Yureku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan
TRACERLAB INC. 1-2-3-4-5-6-10, Adv. Pgs. 49, 130, 276Y ..... 1601 Trapelo Rd. Waltham 54 ..... Mass
Transformer Electronics Co. 4-8 ..... Boulder Ind. Park, Boulder ..... Colo
20th Century Electronics Ltd. 1-2-3-4-5-6-7-8-10 ..... King Henry's Dr. New Addington, Croydon, Surrey, England
U. S. NUCLEAR CORP. 1-2-3-4-5-7-8-10, Adv Pg 262 ..... 801 N Lake St. Box 208, Burbank ..... Cal
Universal Nuclear Corp. 5 ..... 178-03 Hillside Ave. Jamaica 32 ..... NY
Universal Transistor Products Corp 1-2-4-10 ..... 36 Sylvester St. Westbury ..... NY
Uranium Instruments Co. 1-2-4-8 ..... Box 1191, Grand Junction ..... Colo
VICTOREEN INSTRUMENT CO. 1-2-3-4-5-6-7-8, Adv. Pgs. 112, 113 ..... 5800-11 Hough Ave. Cleveland 3 ..... Ohio
Virus KG, Dr. ..... Bonn, Rosenburgweg 20, Germany
Walsh Associates, Charles, 1-2-3-4-5-6-7-8-9-10 ..... Box 244, Deerfield Ill
Western Radiation Lab. 2 ..... 1107 W 24 St. Los Angeles 7 ..... Cal
WESTINGHOUSE ELECTRIC CO. ELECTRONIC TUBE DIV. 5-7-8, Adv. Pgs. 82, 83, 138, 139 ..... Box 284, Elmira ..... NY
WOOD COUNTER LAB., M. 1-2-3-4-5-6-7-8, Adv Pg 262 ..... 1525 E 53rd St. Chicago 15 Ill
X-Ray Dept, General Electric Co, 1-2-4-8-10 ..... 4855 Electric Ave, Milwaukee ..... Wis
Zentralwerkstatt Gottingen GmbH, 1-2-4-7-8 ..... Box 624, Gottingen, W Germany

COUNTERS—RATE
See METERS—COUNTING-RATE

COUNTING-RATE METERS
See METERS—COUNTING-RATE

COUNTING TUBES
See SCALING TUBES—DECADE

COUPLINGS—FLEXIBLE
See *Also* BELLOWS & EXPANSION JOINTS

Aeroquip Corp. Western Div. ..... 3015 Winona Ave. Burbank ..... Cal
American-Standard Industrial Div. ..... Detroit 32 ..... Mich
Andrew Co., Otis ..... 231 W Court St. Cincinnati 2 ..... Ohio
Breeze Corps. Inc. ..... 700 Liberty Ave. Union ..... NJ
Croll-Reynolds Engineering Co. ..... 1122 Main St. Stamford ..... Conn
Crouse-Hinds Co. of Canada Ltd. ..... 1160 Birchmount Rd. Scarborough, Toronto, Ontario, Canada
Eco Engineering Co. ..... 12 New York Ave. Newark 1 ..... NJ
Farrel-Birmingham Co. Inc. ..... Ansonia ..... Conn
FLIGHT REFUELING INC. Adv Pg 133 ..... Box 1701, Baltimore 3 ..... Md
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB ..... Erith, Kent, England
Johnson Co., E. F. ..... Waseca ..... Minn
Koppers Co. Inc. Nuclear Prods. Sec. ..... Pittsburgh 19 ..... Pa
Kupfrian Mfg. Corp. ..... 350 State St. Binghamton ..... NY
Lear, Inc. ..... 110 Ionia Ave. NW, Grand Rapids ..... Mich
N. G. N. Electrical Ltd. ..... Ave. Parade, Accrington, Lanc, England

On Mark Couplings	4440 York Blvd. Los Angeles 41	Cal
P I C Design Corp.	477 Atlantic Ave. E Rockaway	NY
Philadelphia Gear Corp.	King of Prussia	Pa
Pioneer Designs Ltd. Servokits Div.	6 Hampton Ct. Par, E Molesey, Surr, Eng	
Robertshaw-Fulton Controls Co. Bridgeport Thermostat Div.	155 Hill St. Milford	Conn
Technology Instrument Corp.	531 Main St. Acton	Mass

CRANES

ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	**Dept H B, Philadelphia 42**	**Pa**
Harnischfeger Corp.	4400 W National Ave. Milwaukee 46	Wis
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
Moffat Engineering Co. Ltd.	77 S Audley St. London W1, England	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO. Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
PINTSCH BAMAG AG, Adv Pg 276C	**Postfach 11, Butzbach, Germany**	
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Robbins & Myers, Inc.	1345 Lagonda Ave. Springfield	Ohio
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Steels Engrg. Installations Ltd.	Sunderland, Durham, England	
Whiting Corp.	157 & Lathrop Sts. Harvey	Ill
Wright Hoist Div. Amer. Chain & Cable Co. Inc.	735 Hay St. York	Pa

CRITICAL ASSEMBLIES
See REACTORS

CRITICAL EXPERIMENTS
See SERVICES: CRITICAL EXPERIMENTS

CRITICALITY-HAZARD EVALUATION
See SERVICES: CRITICALITY-HAZARD EVALUATION

CRUCIBLES—INDUSTRIAL

American Metal Products Co.	5959 Lindale Ave. Detroit 4	Mich
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Bishop & Co., J., Platinum Works	Malvern.	Pa
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
GREAT LAKES CARBON CORP. Adv Pg 31	**18 E 48th St. New York**	**NY**
Laboratory Equipment Corp.	St. Joseph	Mich
Morgan Crucible Co. Ltd.	Battersea Church Rd. London SW11, Eng	
National Beryllia Corp.	4501 Dell Ave. North Bergen	NJ
NATIONAL CARBON CO. DIV. UCC, Adv. Pg. 4th Cover	**270 Park Ave. New York 17**	**NY**
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
Norton Co.	1 New Bond St. Worcester 6	Mass
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Saxonburg Ceramics, Inc.	Saxonburg	Pa
SHOWA DENKO K. K. Adv Pg 276W	**34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan**	
Speer Carbon Co.	Theresa St. St. Marys	Pa
Thermal Refractories Corp.	4501 Dell Ave. North Bergen	NJ
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore

CRYOGENIC APPARATUS

Air Liquide	75 Quai d'Orsay, Paris, France	
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Cambridge Div. Standard Steel Corp.	**2 Industrial Pk. Lowell**	**Mass**
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Cincinnati Sub Zero Products	3932 Reading Rd. Cincinnati	Ohio
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
Cooper-Bessemer Corp.	Mount Vernon	Ohio
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Cryogenerators Inc.	Ashton	RI
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. Adv Pg 106	**4809 Tod Ave. East Chicago**	**Ind**
Hofman Laboratories, Inc.	5 Evans Term. Hillside	NJ
LINDE CO. DIV. UCC, Adv Pg 222	**270 Park Ave. New York 17**	**NY**
Liquid Carbonic Div. Gen. Dynamics Corp.	135 S La Salle St. Chicago 3	Ill
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
Miller & Son, Inc., Franklin P.	36 Meadow St. E Orange 36	NJ
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Motherwell Bridge & Engrg. Co. Ltd.	Box 4, Motherwell, Scotland	
NATIONAL ANNEALING BOX CO. Adv Pg 268	**Washington**	**Pa**
New York Air Brake Co.	230 Park Ave. New York 17	NY
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
Pesco Products Div. Borg-Warner Corp.	24700 N Miles Rd. Bedford	Ohio
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	**Eindhoven, The Netherlands**	
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Podbielniak Inc.	341 E Ohio St. Chicago 11	Ill
Soc. de Const. pour Tres Bassas Temp's.	82 Av Ambroise Croizat, St. Martin D'Heres, Isere, France	
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Steel & Alloy Tank Co.	Pr. Bessemer St. Newark 5	NJ
Sulzer Bros.	Winterthur, Switzerland	
Superior Air Products Co.	132 Malvern St. Newark 5	NJ
Tenney Engineering, Inc.	1090 Springfield Rd. Union	NJ
Trans-Sonics, Inc.	Burlington	Mass
Trimount Instrument Co.	3119 W Lake St. Chicago 12	Ill
Victory Engineering Corp.	Box 373, Union	NJ
Water Associates	45 Franklin St. Framingham	Mass
Wheeler Mfg. Co. C. H.	1850 Sedgley Ave. Philadelphia 32	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal
Will Corp.	Box 1050, Rochester 3	NY

CRYSTALS—SCINTILLATION
See SCINTILLATORS—CRYSTAL

CYCLOTRONS
See *Under* ACCELERATORS

DATA-PROCESSING EQUIPMENT
See *Also* COMPUTER ACCESSORIES
COMPUTERS—ANALOG
COMPUTERS—DIGITAL

AB Scienta	Kvillegatan 9B, Box 366, Goeteborg	Swed
ACF Industries, Inc.	750 3rd Ave. New York 17	NY
AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Allegany Instrument Co. Inc.	1091 Wills Mountain, Cumberland	Md
Atomium Corp.	940 Main St. Waltham	Mass
Autonetics Div. North Amer. Aviation	9150 E Imperial, Downey	Cal
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que Can	
Bailey Meters & Controls Ltd.	Purley Way, Croydon, Surrey, England	
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Beckman Instruments, Inc. Scientific & Process Instruments Div.	2500 Fullerton Rd. Fullerton	Cal
Beckman Instruments, Inc. Systems Div.	325 N Muller Ave. Anaheim	Cal
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. Bendix Computer Div.	5630 Arbor Vitae St. Los Angeles 45	Cal
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd. Santa Ana	Cal
Briggs Associates Inc.	10 Dekalb St. Norristown	Pa
Brush Instruments Div. Clevite Corp.	37th & Perkins. Cleveland 14	Ohio
Burroughs Corp.	Detroit 32	Mich
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Chesapeake Instrument Corp.	Shadyside	Md
Colorado Research Corp.	Broomfield	Colo
Computer Control Co. Inc.	983 Concord St. Framingham	Mass
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Computer Systems Inc.	Culver Rd. Monmouth Junction	NJ
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	**Box 748, Fort Worth**	**Tex**
Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
Cubic Corp.	5575 Kearny Villa Rd. San Diego 11	Cal
Curtiss-Wright Corp. Electronics Div.	35 Market St. East Paterson	NJ
Dalmo Victor Co. Div. Textron Inc.	1515 Industrial Way, Belmont	Cal
Data-Master Corp. Sub. The Bristol Co.	85 Hazel St. Glen Cove	NY
Datex Corp.	1307 S Myrtle Ave. Monrovia	Cal
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
Deltime, Inc.	139 Hoyt St. Mamaroneck	NY
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
Digital Equipment Corp.	Maynard	Mass
Dymec Div. Hewlett-Packard Co.	395 Page Mill Rd. Palo Alto	Cal
E. M. L.-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
E.M.I. ELECTRONICS LTD. Adv Pg 96	**Hayes, Middlesex, England**	

Electro-Mechanical Research, Inc.	Box 3041, Sarasota	Fla
Electroflo Meters Co. Ltd.	Abbey Rd, Park Royal, NW 10, London	Eng
Electromechanical Products	Markham Rd, Agincourt, Ont, Can,	
ELECTRONIC ASSOCIATES, INC.		
Adv Pg 55	Long Branch	NJ
Electronic Engineering Co. of Cal.	1601 E Chestnut St, Santa Ana	Cal
Electronic Systems Development Corp.	1484 E Main St, Ventura	Cal
Engineered Electronics Co.	1441 E Chestnut Ave, Santa Ana	Cal
Engis Equipment Co.	431 S Dearborn St, Chicago	Ill
English Electric Co, Ltd.	Eng, Elec, Hse, Strand, London WC2	Eng
Epsco, Inc.	275 Massachusetts Ave, Cambridge 39	Mass
Epsco Inc, Components Div.	275 Massachusetts Ave, Cambridge 39	Mass
Ericsson Telephones Ltd.	High Church St, New Basford, Nott, Eng	
Fairchild Camera & Instr. Corp. Defense Prods Div.	300 Robbins Ln, Syosset	NY
Fernsteuergerate OHG.	68-72 Jahnstr, Berlin-Britz, Germany	
Ferranti Electric, Inc.	30 Rockefeller Pl, New York 20	NY
Ferranti-Packard Electric Ltd.	Industry St, Toronto 15, Ontario, Canada	
Fischer & Porter Co.	50 Warminster Rd, Warminster	Pa
FRANKLIN ELECTRONICS, INC.		
Adv Pg 263	4th St, Bridgeport	Pa
GPL Div. General Precision Inc.	63 Bedford Rd, Pleasantville	NY
General Electric Co. Computer Div.	13430 N Black Canyon Hwy, Phoenix	Ariz
HRB-Singer, Inc.	Circleville Rd, State College	Pa
HAGAN CHEMICALS & CONTROLS, INC.		
Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Hallamore Electronics Div.	714 Brookhurst, Anaheim	Cal
HAMMER ELECTRONICS CO.		
Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
HARVEY WELL ELECTRONICS, INC.		
Adv Pg 6	14 Huron Dr, Natick	Mass
Hewlett-Packard Co.	1501 Page Mill Rd, Palo Alto	Cal
Hilger & Watts, Ltd.	98 St, Pancras Way, London NW 1, Eng	
Hogan Faximile Corp. Sub. Telautograph Corp.	635 Greenwich St, New York 14	NY
Holley Carburetor Co.	11955 E 9 Mile Rd, Warren	Mich
Honeywell Electronic Data Processing Div	60 Walnut St, Wellesley Hills 81	Mass
Indiana General Corp.	405 Elm St, Valparaiso	Ind
Interstate Electronics Corp.	707 E Vermont Ave, Anaheim	Cal
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
Kellogg Switchboard & Supply Co.	6650 S Cicero Ave, Chicago 38	Ill
Laboratory for Electronics, Inc.	1079 Commonwealth Ave, Boston	Mass
Land Air Inc.	7444 W Wilson Ave, Chicago 31	Ill
LEACH CORP. Adv Pg 253	18435 Susana Rd, Compton	Cal
Leeds & Northrup Co.	4936 Stenton Ave, Phila 44	Pa
Librascope Div, Gen Precision, Inc.	Glendale 1	Cal
Linotronic Ltd.	47 CharingCross Rd, London, WC2, Eng	
Litton Industries	336 N Foothill Rd, Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Lundell & Co.	7356 S Woodlawn Ave, Chicago 19	Ill
Midwestern Instruments	41st & Sheridan Rd, Box 7509, Tulsa 18	Okla
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co. Boston Div.	40 Life St, Boston 35	Mass
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave, S, Mapls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
Moseley Co., F. L.	409 N Fair Oaks Ave, Pasadena	Cal
Motorola, Inc, Military Electronics Div.	Scottsdale	Ariz
National Cash Register Co.	Main & K Sts, Dayton	Ohio
Navigation Computer Corp.	1621 Snyder Ave, Philadelphia 45	Pa
New Electronic Products Ltd.	360 Kennington Rd, London, SE11, Eng	
Newman Industries Ltd.	Yate, Bristol, England	
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEAR DATA, INC. Adv Pg 237	911 Regent St, Madison	Wis
Philco Corp.	4700 Wissahickon Ave, Phila 44	Pa
Ransom Research	Box 269, San Pedro	Cal
Raytheon Co. Equipment Div.	1089 Washington St, West Newton	Mass
Raytheon Co. Missile Sys. Div.	520 Winter St, Waltham 54	Mass
Rese Engineering, Inc.	731 Arch St, Philadelphia 6	Pa
Royal McBee Corp.	Westchester Ave, Port Chester	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Scott (Electronic Engrg.) Ltd., James	68 Brockville St, Glasgow E2, Scotland	
SHARP LABORATORIES, INC.		
Adv Pg 248	Box 1302, La Jolla	Cal
Solartron Electronic Group Ltd.	Victoria Rd, Farnborough, Hants, Eng	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Systron-Donner Corp.	950 Galindo St, Concord	Cal
TECHNICAL MEASUREMENT CORP.		
Adv Pg 215	441 Washington Ave, North Haven	Conn
Telechrome Mfg. Corp.	28 Ranick Dr, Amityville	NY
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
Telemeter Magnetics Inc.	Box 329, Culver City	Cal
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd, Waltham 54	Mass
Victor Adding Machine Co.	3900 N Rockwell St, Chicago 18	Ill
Wang Laboratories	12 Huron Dr, Natick	Mass
Westinghouse Elec Corp. Instrument Dept	Newark	NJ
Westinghouse Elec Corp. Pwr Control & Comm Dept.	East Pittsburgh	Pa

DEAERATORS

Beach-Russ Co.	420 Lexington Ave, New York 17	NY
Belco Ind Equip Div Bogue Elec Mfg Corp.	100 Pennsylvania Ave, Paterson	NJ
Cleaver-Brooks Special Products Inc.	225 N Grand Ave, Waukesha	Wis
Cochrane Corp.	3214 17th St, Philadelphia 32	Pa
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy, Hoboken	NJ
Consolidated Engines & Machy Co. Ltd.	5645 Pare St, Mt. Royal, Montreal, Can	
ELGIN SOFTENER CORP. Adv Pg 265	179 N Grove Ave, Elgin	Ill
Graham Mfg. Co., Inc.	170 Great Neck Rd, Great Neck	NY
Inflico, Inc.	Box 5033, Tucson	Ariz
Maryland Shipbuilding & Drydock Co.	Box 527, Baltimore 3	Md
Nooter Corp.	1404 S 3rd St, St. Louis 66	Mo
Permutit Co. Div. Pfaudler Permutit Inc.	50 W 44th St, New York 36	NY
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Thompson, Ltd., John	Wolverhampton, England	
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Whitlock Mfg. Co.	97 South St, W Hartford	Conn

DECADE SCALERS

See SCALERS—DECADE
SCALING TUBES—DECADE

DECONTAMINANTS—CHEMICAL

Aceto Chemical Co. Inc.	40-40 Lawrence St, Flushing 54	NY
AMERICAN SMELTING & REFINING CO.		
Adv Pg 125	120 Broadway, New York 5	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd, Cambridge 38	Mass
Bio-Rad Laboratories	1257 S 32nd St, Richmond	Cal
Bios Laboratories, Inc.	17 W 60th St, New York 23	NY
Buchler & Co.	Frankfurter Str, 294 Braunschweig, Ger	
Dow Chemical Co.	Midland	Mich
Geigy Chemical Corp.	Saw Mill River Rd, Ardsley	NY
HAGAN CHEMICALS & CONTROLS, INC.		
Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Nuclear Decontamination Corp.	Apollo	Pa
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St, Brooklyn 31	NY
Oakite Products, Inc.	19 Rector St, New York 6	NY
Pfizer & Co. Inc., Charles	630 Flushing Ave, Brooklyn 6	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd, Waltham 54	Mass
TURCO PRODUCTS, INC. Adv Pg 260	Box 1055, Wilmington	Cal
ULTRASONIC INDUSTRIES, INC.		
Adv Pg 59	141 Albertson Ave, Albertson	NY

DECONTAMINATING EQUIPMENT

Aircraft & Missile Consultants	2722 Ardmore Ave, Manhattan Beach	Cal
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd, Cambridge 38	Mass
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Defense Apparel	116 Allyn St, Hartford	Conn
Filtronics Inc.	Box 200, Cowell	Cal
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
General Coach Works of Can. Ltd.	Hensall, Ont Canada	
HAWS DRINKING FAUCET CO. Adv Pg 100	1439 4th St, Berkeley 10	Cal
Nuclear Decontamination Corp.	Apollo	Pa
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
PINTSCH BAMAG AG, Adv Pg 276C	Postfach 11, Butzbach, Germany	
Pioneer Central Div. Bendix Corp.	Hickory Grove Rd, Davenport	Iowa
Radiation Hazard Control Co.	Fort Atkinson	Wis
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Siemens-Reiniger-Werke AG.	Luitpoldstr, 45, Erlangen, Germany	
Steinmuller GmbH, L. & C.	Gummersbach, Rheinland, Germany	
Tennant Co, G. H.	701 N Lilac Dr, Mnpls 22	Minn
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd, Waltham 54	Mass
TURCO PRODUCTS, INC. Adv Pg 260	Box 1055, Wilmington	Cal
ULTRASONIC INDUSTRIES, INC.		
Adv Pg 59	141 Albertson Ave, Albertson	NY

DECONTAMINATION

See SERVICES: DECONTAMINATION

DEHUMIDIFIERS
See Also AIR-CONDITIONING UNITS

A. E. I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Abbeon Supply Co.	179-15 Jamaica Ave. Jamaica 32	NY
Air-Shields, Inc.	Hatboro	Pa
Airflow Co.	400 S Stonestreet Ave. Rockville	Md
American-Standard Industrial Div.	Detroit 32	Mich
American-Standard Prod. (Can) Ltd.	1201 Dupont St. Toronto 4, Ont Can	
Barium & Chemicals, Inc.	4043 Erie St. Willoughby	Ohio
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Carrier Corp.	Carrier Pkwy. Syracuse 1	NY
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
DELTA DESIGN, INC. Adv Pg 225	7460 Girard Ave. La Jolla	Cal
Ellis & Watts Prods. Inc.	Monroe at Spencer, Cincinnati 36	Ohio
Lennard Co. Inc., P. M.	1061 E 8th St. Jacksonville 6	Fla
Pittsburgh Lectrodryer Div. McGraw-Edison Co.	300 32nd St. Pittsburgh 30	Pa
Pritchard & Co., J. F.	4625 Roanoke Pkwy. Kansas City	Mo
Selas Corp. of America	Dresher	Pa
Trinity Equipment Corp.	Box 1172, Cortland	NY
Westinghouse Elec Corp. Sturtevant Div.	Boston 36	Mass

DEIONIZATION APPARATUS
See DEMINERALIZERS
ION-EXCHANGE EQUIPMENT
WATER CONDITIONERS

DELAY LINES

A. E. I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Ad-Yu Electronics Lab. Inc.	249 Terhune Ave. Passaic	NJ
AMP Inc.	Eisenhower Blvd. Harrisburg	Pa
AMP Inc. Capitron Div.	155 Park St. Elizabethtown	Pa
Arenberg Ultrasonic Lab. Inc.	94 Green St. Jamaica Plain 30	Mass
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd. Santa Ana	Cal
Brew & Co. Inc., Richard D.	90 Airport Rd. Concord	NH
Columbia Technical Corp.	61-02 31 Ave. Woodside 77	NY
Communication Accessories Co.	Lee's Summit	Mo
Computer Control Co. Inc.	983 Concord St. Framingham	Mass
Cornell-Dubilier Electronics Div. Fed. Pac. Elec. Co.	333 Hamilton Blvd. South Plainfield	NJ
Corning Glass Works	Corning	NY
Curtiss-Wright Corp. Electronics Div.	35 Market St. East Paterson	NJ
Deltime, Inc.	139 Hoyt St. Mamaroneck	NY
E. M. L.-Consor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. Adv Pg 96	Hayes, Middlesex, England	
ESC Electronics Corp.	534 Bergen Blvd. Palisades Park	NJ
Ferranti Electric, Inc.	30 Rockefeller Pl. New York 20	NY
Ferranti-Packard Electric Ltd.	Industry St. Toronto 15, Ontario, Canada	
General Radio Co.	West Concord	Mass
Helipot Div. Beckman Instruments, Inc. 2-4	2500 Fullerton Rd. Fullerton	Cal
Hermes Electronics Co.	2500 Fullerton Rd. Fullerton	Cal
Interstate Electronics Corp.	75 Cambridge Pkwy. Cambridge 42	Mass
Laboratory for Electronics, Inc.	707 E Vermont Ave. Anaheim	Cal
Librascope Div. Gen Precision, Inc.	1079 Commonwealth Ave. Boston	Mass
Lockheed Aircraft Corp.	Glendale 1	Cal
LUMATRON ELECTRONICS, INC. Adv Pg 267	Box 551 Burbank	Cal
Marconi's Wireless Telegraph Co., Ltd.	116 County Courthouse Rd. New Hyde Park	NY
Mullard Equipment Ltd.	Chelmsford, Essex, England	
PCA Electronics Inc.	Torrington Pl. London WC1, England	1914
Philco Corp.	16799 Schoenborn St. Sepulveda	Cal
Quartz & Silice	4700 Wissahickon Ave. Phila 44	Pa
Raytheon Co. Commer Appar. & Sys Div.	8 rue d'Anjou, Paris, France	
SAINT GOBAIN, Adv Pg 231	1415 Boston-Prov. Tnpk. Norwood	Mass
	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Sangamo Electric Co.	11 & Converse Sts. Springfield	Ill
Scott (Electronic Engrg.) Ltd., James	68 Brockville St. Glasgow E2, Scotland	
Shallcross Mfg. Co.	Selma	NC
Sickles Div. Gen. Instrument Corp.	165 Front St. Chicopee	Mass
Technology Instrument Corp.	531 Main St. Acton	Mass
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Transonic, Inc.	808 16th St. Box 59, Bakersfield	Cal
Valor Instruments, Inc.	13214 Crenshaw Blvd. Gardena	Cal
Wheeler Electronic Corp.	150 E Aurora St. Waterbury 20	Conn

DEMINERALIZERS
See Also ION-EXCHANGE EQUIPMENT
WATER CONDITIONERS

ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
American Agile Corp.	Box 168, Bedford	Ohio
American Sterilizer Co.	Box 620, Erie	Pa
AVERY & SAUL CO. Adv Pg 8	115 Rindge Ave. Cambridge	Mass
BARNSTEAD STILL & STERILIZER CO. Adv Pg 44	84 Lanesville Terr. Boston 31	Mass
Belco Ind Equip Div Bogue Elec Mfg Corp.	100 Pennsylvania Ave. Paterson	NJ
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Bios Laboratories, Inc.	17 W 60th St. New York 23	NY
Bleiwerk Goslar GmbH	Goslar, Germany	
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Chem-Pure Service Co.	762 Industrial Rd. San Carlos	Cal
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Cochrane Corp.	3214 17th St. Philadelphia 32	Pa
Culligan, Inc.	1657 Shermer Rd. Northbrook	Ill
Dearborn Chemical Co.	Merch. Mart Plaza, Chicago 54	Ill
Dorr-Oliver Inc.	77 Havemeyer Ln. Stamford	Conn
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
ELGIN SOFTENER CORP. Adv Pg 265	179 N Grove Ave. Elgin	Ill
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
ILLINOIS WATER TREATMENT CO. Adv Pg 240	840 Cedar St. Rockford	Ill
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Infilco, Inc.	Box 5033, Tucson	Ariz
International Shielding Industries	Foot of West St. Wilmington	Del
Ionics Inc.	152 6th St. Cambridge 42	Mass
KELLEY & CO., O. G. Adv Pg 30	98 Taylor St. Boston 22	Mass
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
Lead Fabricators, Inc.	25 Belgrove Dr. Kearny	NJ
NATIONAL ANNEALING BOX CO. Adv Pg 268	Washington	Pa
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31. Milan, Italy	
PACIFIC COAST ENGINEERING CO. Adv Pg 53	PO Drawer E, Alameda	Cal
Permutit Co. Div. Pfaudler Permutit Inc.	50 W 44th St. New York 36	NY
PINTSCH BAMAG AG, Adv Pg 276C	Postfach 11, Butzbach, Germany	
PITTSBURGH PIPING & EQUIPMENT CO. Adv Pg 246	158 49th St. Pittsburgh	Pa
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Schueler & Co.	75 Cliff St. New York 38	NY
Scientific Equipment Co.	Box 19086, Indianapolis 19	Ind
Steinmuller GmbH, L. & C.	Gummersbach, Rheinland, Germany	
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Will Corp.	Box 1050, Rochester 3	NY

DENSITOMETERS

Advanced Instruments, Inc.	45N Kenneth St. Newton Highlands 61	Mass
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
Ansco Div. Gen. Anil. & Film Corp.	175 Clinton St. Binghamton	NY
Applied Research Labs. Inc.	Box 1710, Glendale 5	Cal
Automation Products, Inc.	3030 Max Roy St. Houston 24	Tex
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Baldwin Industrial Controls	Dartford, Kent, England	
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Eastman Kodak Co.	343 State St. Rochester 4	NY
Eberline Instrument Corp.	Box 279, Santa Fe	NM
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Falk & Co. Ltd., M.	Emefco House, Reigate, Surrey, Eng	
Gaertner Scientific Corp.	1237 Wrightwood Ave. Chicago	Ill
Halliburton Oil Well Cementing Co.	Drawer 1431, Duncan	Okla
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Hilger & Watts, Ltd.	98 St. Pancras Way. London NW 1. Eng	
Jarrell-Ash Co.	26 Farwell St. Newtonville 60	Mass
KAMAN NUCLEAR, Adv Pg 258	Box 3217, No. End Sta. Colorado Springs	Colo
Litton Industries	336 N Foothill Rd. Beverly Hills	Cal
National Instrument Labs. Inc.	842 Evarts St. NE. Washington	DC
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Potter Aeronautical Corp.	Route #22, Union	NJ
Prazisionsmessgerate RSV	13b Hechendorf/Pilsensee, Germany	
S. A. L. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
Schueler & Co.	75 Cliff St. New York 38	NY
Simmonds Precision Products, Inc.	105 White Plains Rd. Tarrytown	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
WELCH MFG. CO., W.M. Adv Pg 214	1515 Sedgwick St. Chicago 10	Ill
Will Corp.	Box 1050, Rochester 3	NY

DENSITY GAGES
See GAGES—THICKNESS OR DENSITY

DESICCATORS

Air-Shields, Inc.	Hatboro	Pa

Barium & Chemicals, Inc.	4043 Erie St. Willoughby	Ohio
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
Cornelius Co. Aero Div.	550 39 Ave. NE, Minneapolis 21	Minn
Corning Glass Works	Corning	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Labline, Inc.	3070-82 W Grand Ave. Chicago 22	Ill
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
Monsanto Chemical Co. Plastics Div.	600 Monsanto Ave. Springfield 2	Mass
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Soc. de Const. pour Tres Bases Temp's.	82 Av Ambroise Croizat, St. Martin D'Heres, Isere, France	
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Trinity Equipment Corp.	Box 1172, Cortland	NY
Will Corp.	Box 1050, Rochester 3	NY

DESIGN, ENGINEERING & CONSTRUCTION
See SERVICES: ENGINEER-CONSTRUCTOR

DETECTORS—BURST-SLUG

A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
Labgear Ltd. Nucleonics Div.	Cromwell Rd. Cambridge, England	
L'Electronique Appliquee	25 rue du Docteur Finley, Paris 15, Fr	
Lind Instruments, Inc.	2294 Mora Dr. Mountain View	Cal
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Nuclear Enterprises (GB) Ltd.	Bankhead Medway, Edinburgh 11, Scot	
Ohmart Corp.	2236 Bogen St. Cincinnati 14	Ohio
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Rollo-Hardy & Co. Ltd.	Paddockhall Rd. Haywards Heath, Sussex, Eng	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	

DETECTORS—GAS
See Also ANALYZERS—GAS

AB Scienta	Kvillegatan 9B, Box 366, Goeteborg	Swed
Automation Products, Inc.	3030 Max Roy St. Houston 24	Tex
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Bullard Co., E. D.	2680 Bridgeway, Sausalito	Cal
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Devco Engineering Inc. Control Systems Div.	Pier Lane W, Caldwell	NJ
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Gelman Instrument Co.	106 N Main St. Chelsea	Mich
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Houston Instrument Corp.	Box 22234, Houston 27	Tex
Infra Red Development Co. Ltd.	40 Tewin Rd. Welwyn Garden City, Herts, England	
Intl. Engrg. Concessionaires Ltd.	39 Parliament St. Westminster, London SW1, England	
International Gas Detectors Ltd.	8A Gr. Wilson St, Leeds, 11 Yorks, Eng	
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
Johnson Williams, Inc.	2625 Park Blvd. Palo Alto 35	Cal
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Leybold's Nachfolger, E.	Bonner Str. 504, Koln-Bayenthal, Ger	
Liquid Metals, Inc.	Box 2666, Westford	Mass
Mine Safety Appliances Co.	201 N Braddock Ave. Pittsburgh 8	Pa
Model Engineering & Mfg. Inc.	50 Frederick St. Huntington	Ind
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
Patterson Moos Research Div. Lessing Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Raytheon Co. Commer Appar. & Sys Div.	1415 Boston-Prov. Tnpk. Norwood	Mass
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Wallace & Tiernan, Inc.	25 Main St. Belleville 9	NJ
Water Associates	45 Franklin St. Framingham	Mass

DETECTORS—LEAK

A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
American Electronics Inc. Nuclear Div.	9459 W Jefferson Blvd. Culver City	Cal
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
ATOMATION, INC. DIV. C. W. REED CO. INC. Adv Pg 233	5959 S Hoover, L A 44	Cal
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Computer Measurements Co.	12970 Bradley Ave. Sylmar	Cal
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Consolidated Engines & Machy Co. Ltd.	5645 Pare St. Mt. Royal, Montreal, Can	
Crosby-Teletronics Corp.	54 Kinkel St. Westbury	NY
Devco Engineering Inc. Control Systems Div.	Pier Lane W, Caldwell	NJ
Ekco Electronics Ltd. Ekco Wks.	Southend-on-Sea, Essex, England	
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gates & Co. Inc., George W.	Hempstead Tmpk & Lucille Ave. Franklin Square	NY
Gelman Instrument Co.	106 N Main St. Chelsea	Mich
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Highside Chemicals, Inc.	4-10 Colfax Ave. Clifton	NJ
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
Hill & Co., E. Vernon	Box 189, Lake Geneva	Wis
Infra Red Development Co. Ltd.	40 Tewin Rd. Welwyn Garden City, Herts, England	
International Gas Detectors Ltd.	8A Gr. Wilson St, Leeds, 11 Yorks, Eng	
Leybold's Nachfolger, E.	Bonner Str. 504, Koln-Bayenthal, Ger	
LINDE CO. DIV. UCC, Adv Pg 222	270 Park Ave. New York 17	NY
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
Marsh Instrument Co. Div. Colo Oil & Gas Corp.	3501 Howard St. Skokie	Ill
Menlo Research Laboratory	1627 Bay Rd. East Palo Alto	Cal
Metal & Pipeline Endurance Ltd.	30 London Rd. Knebworth, Herts, England	
Mine Safety Appliances Co.	201 N Braddock Ave. Pittsburgh 8	Pa
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. Adv Pg 136	80 Charlemont St. Newton Highlands 61	Mass
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Potter Aeronautical Corp.	Route 622, Union	NJ
Powertron Ultrasonics Corp.	E Gate Blvd. Garden City	NY
STOKES CORP., F. J. Adv Pg 85	5500 Tabor Rd. Philadelphia 20	Pa
THOMSON-HOUSTON (CIE. FRANCAISE), Adv Pg 276B	173 Blvd. Haussman, Paris 8, France	
Trionics Corp.	Box 548, Madison 1	Wis
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
Vacuum Apparatus Co.	906 Industrial Ave. Palo Alto	Cal
VACUUM-ELECTRONIC CORP. Adv Pg 260	Terminal Dr. Plainview	NY
Vacuum Instrument Corp.	Huntington Station	NY
Vacuum Metallurgical Developments, Ltd.	Shelford, Cambridge, England	
Water Associates	45 Franklin St. Framingham	Mass

DETECTORS—METAL

Bently Scientific Co.	2811 7th St. Berkeley 10	Cal
Computer Measurements Co.	12970 Bradley Ave. Sylmar	Cal
Crescent Engrg. & Research Co.	5440 N Peck Rd. El Monte	Cal
Dice Co., J. W.	Englewood 41	NJ
Electro-Mechanical Research, Inc.	Box 3041, Sarasota	Fla
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Indiana General Corp.	405 Elm St. Valparaiso	Ind
Instrument Corp. of America	1545 Kennewick Rd. Baltimore 18	Md
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Lock & Co. Ltd., A. M.	Union St. Oldham, Lanc. England	
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
National Spectrographic Lab. Inc.	6300 Euclid Ave. Cleveland 3	Ohio
Newman Industries Ltd.	Yate, Bristol, England	
NUCLEAR ENTERPRISES LTD. Adv Pg 258	550 Berry St. Winnipeg 12, Manitoba	
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS. Adv Pg 70	Front & Cooper Sts. Camden 2	NJ
Rank Cintel Ltd.	Worsley Bridge Rd. London, SE 26, Eng	
Will Corp.	Box 1050, Rochester 3	NY

DETECTORS—RADIATION
See COUNTERS—RADIATION

DETECTORS—VACUUM
See CONTROLS—VACUUM

DETERGENTS
See DECONTAMINANTS

DEUTERIUM GAS

Bio-Rad Laboratories	1257 S 32nd St, Richmond	Cal
Bios Laboratories, Inc.	17 W 60th St, New York 23	NY
Electromechanical Products	Markham Rd, Agincourt, Ont, Can.	
ISOMET CORP. Adv Pg 126	433 Commercial Ave, Palisades Park	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
SHOWA DENKO K. K. Adv Pg 276W	34 Shibe Miyamoto-cho, Minato-ku, Tokyo, Japan	
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal

DIESEL MOTOR-GENERATOR SETS
See MOTOR-GENERATOR SETS

DIGITAL COMPUTERS
See COMPUTERS—DIGITAL

DIGITAL INDICATING DEVICES
See Also SCALING TUBES—DECADE
COUNTERS—ELECTROMECHANICAL

AB Scienta	Kvillegatan 9B, Box 366, Goeteborg	Swed
AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Alden Electronic & Impulse Recording Equip. Co.	Westboro	Mass
AMP Inc.	Eisenhower Blvd, Harrisburg	Pa
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Bailey Meters & Controls Ltd.	Purley Way, Croydon, Surrey, England	
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
Bryans Aeroquipment Ltd.	Willow Ln, Mitcham, Surrey, England	
Burroughs Corp. Electronic Tube Div.	Box 1226, Plainfield	NJ
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Computer Control Co. Inc.	983 Concord St, Framingham	Mass
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Computer Measurements Co.	12970 Bradley Ave, Sylmar	Cal
Computer Systems Inc.	Culver Rd, Monmouth Junction	NJ
Curtiss- Wright Corp. Electronics Div.	35 Market St, East Paterson	NJ
Data-Master Corp. Sub. The Bristol Co.	85 Hazel St, Glen Cove	NY
Datex Corp.	1307 S Myrtle Ave, Monrovia	Cal
Daystrom Inc. Control Systems Div.	4455 Miramar Rd, LaJolla	Cal
Detroit Controls Div. Amer. Rad. & Stand. San. Corp.	5900 Trumbull, Detroit 8	Mich
Durant Mfg. Co.	1900 N Buffum St, Milwaukee 1	Wis
Dymec Div. Hewlett-Packard Co.	395 Page Mill Rd, Palo Alto	Cal
Electromechanical Products	Markham Rd, Agincourt, Ont, Can.	
ELECTRONIC ASSOCIATES, INC. Adv Pg 55	Long Branch	NJ
Engineered Electronics Co.	1441 E Chestnut Ave, Santa Ana	Cal
Ericsson Telephones Ltd.	High Church St, New Basford, Nott, Eng	
Erie Resistor Corp.	644 W 12th St, Erie	Pa
Ferranti Electric, Inc.	30 Rockefeller Pl, New York 20	NY
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave, LIC 1	NY
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv Pgs. 95, 97, 99, 101	1 River Rd, Schenectady 5	NY
Graflex, Inc.	3750 Monroe Ave, Rochester 3	NY
HARVEY WELLS ELECTRONICS, INC. Adv Pg 6	14 Huron Dr, Natick	Mass
Hermes Electronics Co.	75 Cambridge Pkwy, Cambridge 42	Mass
Hewlett-Packard Co.	1501 Page Mill Rd, Palo Alto	Cal
Hilger & Watts, Ltd.	98 St, Pancras Way, London NW 1, Eng	
Interstate Electronics Corp.	707 E Vermont Ave, Anaheim	Cal
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	1150 McBride Ave, Little Falls	NJ
Kin Tel Div. Cohu Electronics, Inc.	5725 Kearny Villa Rd, San Diego 12	Cal
Laboratory for Electronics, Inc.	1079 Commonwealth Ave, Boston	Mass
Leeds & Northrup Co.	4936 Stenton Ave, Phila 44	Pa
Lintronic Ltd.	47 CharingCross Rd, London, WC2, Eng	
Litton Industries	336 N Foothill Rd, Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Meriam Instrument Co.	10920 Madison Ave, Cleveland 2	Ohio
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Model Engineering & Mfg. Inc.	50 Frederick St, Huntington	Ind
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Navigation Computer Corp.	1621 Snyder Ave, Philadelphia 45	Pa
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Oster Mfg. Co., John, Avionic Div.	1 Main St, Racine	Wis
PHYSICAL SCIENCES CORP. Adv Pg 263	389 N Fair Oaks, Pasadena	Cal
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
Potter Aeronautical Corp.	Route #22, Union	NJ
Racal Instruments Ltd.	Western Rd, Bracknell, Berks, England	
Rank Cintel Ltd.	Worsley Bridge Rd, London, SE 26, Eng	
Raytheon Co. Ind. Comps. Div.	55 Chapel St, Newton	Mass
Scott (Electronic Engrg.) Ltd., James	68 Brockville St, Glasglw E2, Scotland	
SHARP LABORATORIES, INC. Adv Pg 248	Box 1302, La Jolla	Cal
Siemens & Halske AG	Rheinbrueckenstr, 50, Karlsruhe, Germany	
Sigma Instruments, Inc.	170 Pearl St, South Braintree 85	Mass
Solartron Electronic Group Ltd.	Victoria Rd, Farnborough, Hants, Eng	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Systron-Donner Corp.	950 Galindo St, Concord	Cal
Telechrome Mfg. Corp.	28 Ranick Dr, Amityville	NY
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
Victor Adding Machine Co.	3900 N Rockwell St, Chicago 18	Ill
Waltham Precision Instrument Co.	221 Crescent St, Waltham 54	Mass
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa
Westinghouse Elec Corp, Instrument Dept	Newark	NJ

DIODES—SEMICONDUCTOR
See Also TRANSISTORS
COUNTERS—RADIATION
SEMICONDUCTOR DETECTORS

A.E.I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
AMPEREX ELECTRONIC CORP. Adv Pg 145	230 Duffy Ave, Hicksville	NY
Ballou & Co. Inc., B. A.	61 Peck St, Providence	RI
Bell Telephone Mfg Co, Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp.	1128 Fisher Bldg, Detroit 2	Mich
CBS Electronics Div. CBS Inc. Semiconductor Oper.	900 Chelmsford St, Lowell	Mass
Clevite Transistor Products	241-257 Crescent St, Waltham 54	Mass
Controls Co. of America	9555 Soreng Ave, Schiller Park	Ill
Comell-Dubilier Electronics Div. Fed. Pacific Elec. Co.	1605 Rodney French Blvd, New Bedford	Mass
Electromechanical Products	Markham Rd, Agincourt, Ont, Can.	
Erie Resistor Corp.	644 W 12th St, Erie	Pa
Fairchild Semiconductor Corp.	545 Whisman Rd, Mountain View	Cal
Fansteel Metallurgical Corp.	North Chicago	Ill
General Transistor Corp.	91-27 138th Pl, Jamaica 35	NY
Hoffman Electronics Corp. Semiconductor Div.	930 Pitner Ave, Evanston	Ill
Hughes Semiconductor Div.	500 Superior Ave, Newport Beach	Cal
International Rectifier Corp.	233 Kansas St, El Segundo	Cal
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
La Radiotechnique	130, Av. Ledru-Rollin-Paris 11, France	
Mallory & Co., Inc. P. R.	3029 E Washington St, Indapls, 6	Ind
Minn-Honeywell Reg Co, Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
Motorola Semiconductor Products Inc.	5005 E McDowell Rd, Phoenix	Ariz
Ohmite Mfg. Co.	3601 Howard St, Skokie	Ill
Pacific Semiconductors, Inc.	14520 S Aviation Blvd, Lawndale	Cal
Philco Corp.	4700 Wissahickon Ave, Phila 44	Pa
Philco Corp. Lansdale Tube Div.	Church Rd, Lansdale	Pa
Radio Corp. of America Semiconductor & Materials Div.	Box 591, Somerville	NJ
Raytheon Co. Semiconductor Div.	215 1st Ave, Needham Hgts.	Mass
Rheem Semiconductor Corp.	350 Ellis St, Mountain View	Cal
SEMI-ELEMENTS INC. Adv Pg 98	Saxonburg Blvd, Saxonburg	Pa
SOLID STATE RADIATIONS, INC. Adv Pg 44	9925 W Jefferson Blvd, Culver City	Cal
Sperry Semiconductor Div. Sperry Rand Corp.	Wilson Ave, South Norwalk	Conn
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Sylvania Elec Prods Inc Semiconductor Div	100 Sylvan Rd, Woburn	Mass
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St, New York 11	NY
Texas Instruments Incorporated, Semiconductor-Components Div.	Box 312, Dallas	Tex
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	23555 Euclid Ave, Cleveland 17	Ohio
THOMSON-HOUSTON (CIE. FRANÇAISE), Adv Pg 276B	173 Blvd. Haussman, Paris 8, France	
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	

TRANSITRON ELECTRONIC CORP. Adv Pg 107	168 Albion St. Wakefield	Mass
Tung-Sol Electric Inc.	1 Summer Ave. Newark 4	NJ
Valor Instruments, Inc.	13214 Crenshaw Blvd. Gardena	Cal
Westinghouse Elec Corp, Pwr Control & Comm Dept.	East Pittsburgh	Pa

DISSOLVERS

Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
GENERAL AMERICAN TRANSPORTATION CORP. Adv Pg 58	135 S LaSalle St. Chicago 3	Ill
Patterson Foundry & Machine Co.	East Liverpool	Ohio
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Terrin-Consolidated Industries	22-24 Wooster St. New York 13	NY

DISTILLATION EQUIPMENT
See Also STILLS—LABORATORY

Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Boucher & Co. Ltd.	Pike Mills, Green St. Kidderminster, Worcester, England	
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Cleaver-Brooks Special Products Inc.	225 N Grand Ave. Waukesha	Wis
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
Fansteel Metallurgical Steel Corp.	North Chicago	Ill
Fish-Schurman Corp.	70 Portman Rd. New Rochelle	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can.	
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Gallenkamp & Co. Ltd., A.	Sun St, London, E. C. 2, England	
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. Adv Pg 186	4809 Tod Ave. East Chicago	Ind
GRISCOM-RUSSELL CO. Adv Pg 217	Meaville	Ohio
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Ionics Inc.	152 6th St. Cambridge 42	Mass
Lebline, Inc.	3070-82 W Grand Ave. Chicago 22	Ill
Manesty Machines Ltd.	Evans Rd. Liverpool 24, England	
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
New York Air Brake Co.	230 Park Ave. New York 17	NY
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
Packed Column Corp.	30 Church St. New York 7	NY
Pfaudler Co. Div. Pfaudler Permutit Inc.	1000 West Ave. Rochester 3	NY
Podbielniak Inc.	341 E Ohio St. Chicago 11	Ill
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Schueler & Co.	75 Cliff St. New York 38	NY
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St. Milwaukee 1	Wis
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
STOKES CORP., F. J. Adv Pg 85	5300 Tabor Rd. Philadelphia 20	Pa
Struthers Wells Corp.	Warren	Pa
Sulzer Bros.	Winterthur, Switzerland	
Thomas Co., Arthur H.	Vine St. at 3rd, Philadelphia 5	Pa
Vulcan Mfg.	Box 22, Cincinnati 15	Ohio
Will Corp.	Box 1050, Rochester 3	NY

DOORS—AIRTIGHT ACCESS

Air-Shields, Inc.	Hatboro	Pa
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Herring-Hall-Marvin Safe Co. Div. Diebold Inc.	Hamilton	Ohio
L. & P. MACHINE CO. Adv Pg 238	2110 Belgrove Ave. Huntington Park	Cal
LINCOLN FOUNDRY CORP. Adv Pg 238	2525 E 49 St. Los Angeles	Cal
Peelle Co.	47 Stewart Ave. Brooklyn 37	NY
PRATT CO., HENRY, Adv Pg 245	319 W Van Buren, Chicago 7	Ill
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Radiation Products, Inc.	Ft. 40 Rd. Flushing 52	NY
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St. Cambridge, Eng	
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	

DOORS—SHIELDED
See SHIELDING—RADIATION

DOSIMETER CHARGERS

ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Baldwin Industrial Controls	Dartford, Kent, England	
Bendix Corp. Cincinnati Div.	3130 Wasson Rd. Cincnti 8	Ohio
Budd Co. Instruments Div.	Box 245, Phoenixville	Pa
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
FRIESEKE & HOEPFNER GmbH, Adv Pg 276M	Erlangen-Bruck, Germany	
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
Jordan Electronics	Alhambra	Cal
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
LANDSVERK ELECTROMETER CO. Adv Pg 255	641 Sonoro Ave. Glendale 1	Cal
NUCLEAR MEASUREMENTS CORP. Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
Nuclear Research Applications Ltd.	Bell St, Reigate, Surrey, England	
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	Eindhoven, The Netherlands	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
Poetschke & Co. oHG	Box 2768, Frankfurt/Main 1, Germany	
RADIATION COUNTER LABS. INC. Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 276I	61 E Heath Ave. Northlake	Ill
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
Rank Cintel Ltd.	Worsley Bridge Rd. London, SE 26, Eng	
SELO	Via Monfalcone, 12, Milano, Italy	
Scott (Electronic Engrg.) Ltd., James	68 Brockville St, Glasgow E2, Scotland	
Siemens-Reiniger-Werke AG.	Luipoldstr. 45, Erlangen, Germany	
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	

DOSIMETERS—RADIATION, <1,000 r
See Also CHAMBERS—IONIZATION
COUNTERS—RADIATION
MONITORS—RADIATION
PHANTOMS—RADIATION DOSIMETRY

1. *CHEMICAL*
2. *CRYSTAL*
3. *FILM-BADGE*
4. *GLASS*
5. *ION-CHAMBER*
6. *NEUTRON*
7. *POCKET*

AEG, 5-6, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV. 5, Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Admiral Corp. 1-5	3800 W Cortland St. Chicago 47	Ill
AEROJET-GENERAL NUCLEONICS, 6, Adv Pg 119	Box 77, San Ramon	Cal
ALLIED RESEARCH ASSOCIATES, INC. 6-7, Adv Pg 107	43 Leon St. Boston 15	Mass
Ansco Div. Gen. Anil. & Film Corp. 3	175 Clinton St. Binghamton	NY
Atomasters-Buntaine Corp. 3-5-6-7	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. 5-6-7, Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Atomic Film Badge Corp. 3	43 W 61st St. New York 23	NY
BAIRD-ATOMIC, INC. 3-5, Adv Pg 65	33 University Rd. Cambridge 38	Mass
Baldwin Industrial Controls, 3-5	Dartford, Kent, England	
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Bendix Corp. 5	1128 Fisher Bldg. Detroit 2	Mich
Bendix Corp. Cincinnati Div. 6-7	3130 Wasson Rd. Cincnti 8	Ohio
Borg-Warner Controls Div. Borg-Warner Corp. 2	3300 Newport Blvd. Santa Ana	Cal
Budd Co. Instruments Div. 7	Box 245, Phoenixville	Pa
Cambridge Instrument Co. Inc.	420 Lexington Ave. New York 17	NY
CONTROLS FOR RADIATION, INC. 1-3, Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP. 6, Adv Pg 104	Box 748, Fort Worth	Tex
Corning Glass Works, 4	Corning	NY
Curtis Nuclear Corp. 3-7	1645 W 135th St. Gardena	Cal
E. M. L.-Consor Electronics Ltd. 7	Box 525, Dartmouth, N.S. Canada	
EDGERTON, GERMESHAUSEN & GRIER, INC. 2-7, Adv Pg 251	160 Brookline Ave. Boston 15	Mass
Ekco Electronics Ltd. Ekco Wks. 5	Southend-on-Sea, Essex, England	
Electronic Instruments Ltd. 5	Lower Mortlake Rd. Richmond, Surrey	Eng
FRIESEKE & HOEPFNER GmbH, 5-6-7, Adv Pg 276H	Erlangen-Bruck, Germany	

Gamma Industries, Inc. 7	Box 2543, Baton Rouge	La
Gilardoni S.p.A. 3-5	Via Statale, Mandello Lario, Como	Italy
Hazleton-Nuclear Science Corp. 6	4062 Fabian Way, Palo Alto	Cal
Inspection Services Ltd. 7	Oldfields Trading Est, Sutton By-pass, Sutton, Surrey, England	
Interstate Electronics Corp. 7	707 E Vermont Ave. Anaheim	Cal
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, 1-3-5-7, Adv Pg 128	170 W Providencia, Burbank	Cal
JENAER GLASWERK SCHOTT & GEN. 4, Adv Pg 276Z	10 Hattenbergstr. Mainz/Rhein W Ger	
JOHNSON & ASSOC. INC., WILLIAM B. 6-7, Adv Pg 255	Box 415 Mountain Lakes	NJ
Jordan Electronics, 5	Alhambra	Cal
Kahl Scientific Instrument Corp, 5-7	Box 1166 El Cajon	Cal
Kobe Kogyo Corp, 5-7	1-5 Wadayama-Dori, Kobe, Japan	
Labgear Ltd, Nucleonics Div. 5	Cromwell Rd, Cambridge, England	
Lab. Prof. Dr. Berthold, 7	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
LANDAUER, JR. & CO., R. S. 3, Adv Pg 256	3920 216th St. Matteson	Ill
LANDSVERK ELECTROMETER CO. 5-6, Adv Pg 255	641 Sonora Ave. Glendale 1	Cal
LOCKHEED NUCLEAR PRODUCTS, 5-6, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
M.B.L.E. 2-7, Adv. Pgs. 259, 276V	80 Rue des Deux Gares, Brussels 7, Belg	
MEILLON, INC., GEORGE T. 3-7, Adv Pg 252	132 Nassau St. New York 38	NY
Miles Hivolt Ltd. 5-6-7	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Nihon-Musen, K. K. 5	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP. 3-5-6-7, Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
Nuclear Consultants Corp. 1-2-3-4-5-6-7	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR MEASUREMENTS CORP. 7, Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
Nuclear Research Applications Ltd. 7	Bell St, Reigate, Surrey, England	
NUCLEAR SCIENCE & ENGINEERING CORP. 6, Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEAR SERVICE LABS. INC. 3, Adv Pg 222	Box 1885, Knoxville 1	Tenn
NUCLEONIC CORP. OF AMERICA, 3-5-6-7, Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Pacific Transducer Corp. 7	11836 SW Pico Blvd. Los Angeles 64	Cal
PENBERTHY INSTRUMENT CO. 4-7, Adv Pg 111	4301 6th Ave. S, Seattle 8	Wash
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 5, Adv Pg 267	Eindhoven, The Netherlands	
Picker & Harting Vertrieb GMBH, 7	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. 7, Adv Pg 109	25 S Broadway, White Plains	NY
Pittsburgh Plate Glass Co. 4	632 Fort Duquesne Blvd. Pittsburgh 22	Pa
Poetschke & Co. oHG 5-6-7	Box 2766, Frankfurt/Main 1, Germany	
RADIATION COUNTER LABS. INC. 7, Adv Pg 39	5122 W Grove St. Skokie	Ill
Radiation Detection Co. 3-6	4047-49 Transport St. Palo Alto	Cal
RADIATION INSTRUMENT DEVELOPMENT LAB. 7, Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Radionics Inc. 3-7	Lafayette & Water Sts. Norristown	Pa
Rank Cintel Ltd. 7	Worsley Bridge Rd. London, SE 26, Eng	
REUTER-STOKES ELECTRONIC COMPONENTS, INC. 5-6, Adv Pg 226	2149 Hamilton Ave. Cleveland 14	Ohio
SELO, 5-7	Via Monfalcone, 12, Milano, Italy	
SAINT GOBAIN, 4, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
St. John X-Ray Laboratory, 3	Califon	NJ
SAMPLES MACHINE CO., A. M. 3, Adv Pg 263	2908 Tazewell Pike, Knoxville 18	Tenn
Siemens & Halske AG, 7	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Siemens-Reiniger-Werke AG, 3-7	Luipoldstr. 45, Erlangen, Germany	
SOLID STATE RADIATIONS, INC. 2-6-7, Adv Pg 44	9925 W Jefferson Blvd. Culver City	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp. 1-2-3-4-5-6-7	100 Carlson Rd. Rochester	NY
TECHNICAL ASSOCIATES, 1-3-5, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TERMINAL RADIO INTERNATIONAL LTD. 5-7, Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. 4-5-7, Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
20th Century Electronics Ltd. 5	King Henry's Dr. New Addington, Croydon, Surrey, England	
U. S. NUCLEAR CORP. 3, Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
VICTOREEN INSTRUMENT CO. 5-7, Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
X-Ray Monitoring Corp. 3	43 W 61 St. New York 23	NY

DOSIMETERS—RADIATION, >1,000r
See Also **CHAMBERS—IONIZATION**
COUNTERS—RADIATION

MONITORS—RADIATION

1. *CHEMICAL*
2. *CRYSTAL*
3. *FILM BADGE*
4. *GLASS*
5. *ION-CHAMBER*
6. *NEUTRON*
7. *POCKET*

AEG, 5-6, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV. 5, Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Admiral Corp. 1	3800 W Cortland St. Chicago 47	Ill
AEROJET-GENERAL NUCLEONICS, 6, Adv Pg 119	Box 77, San Ramon	Cal
ALLIED RESEARCH ASSOCIATES, INC. 6-7, Adv Pg 107	43 Leon St. Boston 15	Mass
Ansco Div. Gen. Anil. & Film Corp. 3	175 Clinton St. Binghamton	NY
ATOMIC ACCESSORIES, INC. 5-6-7, Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Atomic Film Badge Corp. 3	43 W 61st St. New York 23	NY
BAIRD-ATOMIC, INC. 3-5, Adv Pg 65	33 University Rd. Cambridge 38	Mass
Baldwin Industrial Controls, 3-5	Dartford, Kent, England	
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Bendix Corp. 5	1128 Fisher Bldg. Detroit 2	Mich
Bendix Corp. Cincinnati Div. 6-7	3130 Wasson Rd. Cincnti 8	Ohio
Borg-Warner Controls Div. Borg-Warner Corp. 2	3300 Newport Blvd, Santa Ana	Cal
Budd Co. Instruments Div. 7	Box 245, Phoenixville	Pa
CONTROLS FOR RADIATION, INC. 1-3, Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP. 1-5, Adv Pg 104	Box 748, Fort Worth	Tex
Curtis Nuclear Corp. 3-7	1645 W 135th St. Gardena	Cal
E. M. L-Cossor Electronics Ltd. 7	Box 525, Dartmouth, N.S. Canada	
EDGERTON, GERMESHAUSEN & GRIER, INC. 1-7, Adv Pg 251	160 Brookline Ave. Boston 15	Mass
Ferranti-Packard Electric Ltd. 7	Industry St. Toronto 15, Ontario, Canada	
Fleming Radio (Developments) Ltd. 7	Caxton Way, Stevenage, Herts, England	
FRIESEKE & HOEPFNER GmbH, 7 Adv Pg 276H	Erlangen-Bruck, Germany	
Gilardoni S.p.A. 3-5	Via Statale, Mandello Lario, Como	Italy
Hazleton-Nuclear Science Corp. 6	4062 Fabian Way, Palo Alto	Cal
Inspection Services Ltd. 7	Oldfields Trading Est, Sutton By-pass, Sutton, Surrey, England	
ISOMET CORP. 2, Adv Pg 126	433 Commercial Ave. Palisades Park	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, 1-5-7, Adv Pg 128	170 W Providencia, Burbank	Cal
Jordan Electronics, 5	Alhambra	Cal
Kahl Scientific Instrument Corp, 5-6-7	Box 1166 El Cajon	Cal
Kobe Kogyo Corp, 5	1-5 Wadayama-Dori, Kobe, Japan	
Labgear Ltd, Nucleonics Div. 5	Cromwell Rd. Cambridge, England	
LANDAUER, JR. & CO., R. S. 3, Adv Pg 256	3920 216th St. Matteson	Ill
LANDSVERK ELECTROMETER CO. 5-6, Adv Pg 255	641 Sonora Ave. Glendale 1	Cal
LOCKHEED NUCLEAR PRODUCTS, 5-6, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
M.B.L.E. 2, Adv. Pgs. 259, 276V	80 Rue des Deux Gares, Brussels 7, Belg	
Marion Labs. Inc. 1	Box 963, Kansas City	Mo
MEILLON, INC., GEORGE T. 3-5-7, Adv Pg 252	132 Nassau St. New York 38	NY
Miles Hivolt Ltd. 5-6-7	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Nuclear Consultants Corp. 1-2-3-4-5-6-7	9842 Manchester Rd. St. Louis 19	Mo
Nuclear Research Applications Ltd. 7	Bell St. Reigate, Surrey, England	
NUCLEAR SCIENCE & ENGINEERING CORP. 6, Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEONIC CORP. OF AMERICA, 3-6-7, Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Pittsburgh Plate Glass Co. 4	632 Fort Duquesne Blvd. Pittsburgh 22	Pa
Poetschke & Co. oHG 5-6-7	Box 2766, Frankfurt/Main 1, Germany	
Radiation Detection Co. 6	4047-49 Transport St. Palo Alto	Cal
Rank Cintel Ltd. 7	Worsley Bridge Rd. London, SE 26, Eng	
REUTER-STOKES ELECTRONIC COMPONENTS, INC. 5-6, Adv Pg 226	2149 Hamilton Ave. Cleveland 14	Ohio
SELO, 5	Via Monfalcone, 12, Milano, Italy	
SAINT GOBAIN, 4, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
St. John X-Ray Laboratory, 3	Califon	NJ
SAMPLES MACHINE CO., A. M. 3, Adv Pg 263	2908 Tazewell Pike, Knoxville 18	Tenn
SOLID STATE RADIATIONS, INC. 5-6-7, Adv Pg 44	9925 W Jefferson Blvd. Culver City	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp. 1-2-3-4-5-6-7	100 Carlson Rd. Rochester	NY
TECHNICAL ASSOCIATES, 1-3-5, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
Telechrome Mfg. Corp. 5-7	28 Ranick Dr. Amityville	NY
TERMINAL RADIO INTERNATIONAL LTD. 5, Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY

TOKYO SHIBAURA ELECTRIC CO., LTD. 4-5-7, Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
20th Century Electronics Ltd. 5	King Henry's Dr, New Addington, Croydon, Surrey, England	
VICTOREEN INSTRUMENT CO. 5 Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
X-Ray Dept. General Electric Co. 5	4855 Electric Ave, Milwaukee	Wis
X-Ray Monitoring Corp. 3	43 W 61 St, New York 23	NY

DRAW BENCH
See Under FABRICATING EQUIPMENT

DRILLS—CONCRETE

Glesener Co., A. J.	975 Bryant St, San Francisco 3	Cal

DRY BOXES

Air-Shields, Inc.	Hatboro	Pa
Allied Engineering & Production Corp.	2421 Blanding Ave, Alameda	Cal
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
American Agile Corp.	Box 168, Bedford	Ohio
American Sterilizer Co.	Box 620, Erie	Pa
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln, Horsham, Sussex, England	
Blickman, Inc., S.	7900 Gregory Ave. Weehawken	NJ
Boucher & Co. Ltd.	Pike Mills, Green St, Kidderminster, Worcester, England	
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Cayuga Machine & Fabricating Co. Inc.	200 W Gould Ave. Depew	NY
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St, Jacksonville 6	Fla
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
DELTA DESIGN, INC. Adv Pg 225	7460 Girard Ave. La Jolla	Cal
DUBLIN INDUSTRIES, INC. Adv Pg 258	11824 Dublin Blvd. Hayward	Cal
Duralab Equipment Corp.	989 Linwood St, Brooklyn 8	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
GENERAL AMERICAN TRANSPORTATION CORP. Adv Pg 58	135 S LaSalle St. Chicago 3	Ill
Hamilton Mfg. Co.	Two River	Wis
High Vacuum Equipment Corp.	2 Churchill Rd. Hingham	Mass
JOHNSON & ASSOC. INC., WILLIAM E., Adv Pg 255	Box 415 Mountain Lakes	NJ
KELLEY & CO., O. G. Adv Pg 38	98 Taylor St. Boston 22	Mass
KEWAUNEE MFG. CO. Adv Pg 86	5083 S Center St. Adrian	Mich
Lennard Co. Inc., P. M.	1061 E 8th St, Jacksonville 6	Fla
Liquid Metals, Inc.	Box 2666, Westford	Mass
Metalab Equipment Co.	270 Duffy Ave. Hicksville	NY
Modern Lab. Equipment Co., Inc.	1811 1st Ave, New York 28	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
Philco Corp, Lansdale Tube Div.	Church Rd, Lansdale	Pa
Plasmadyne Corp.	3839 S Main St, Santa Ana	Cal
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
RAY-PROOF CORP. Adv Pg 276	843 Canal St. Stamford	Conn
Reetz Co., Robert C.	81 Montgomery St, Pawtucket	RI
Snyder Mfg. Co. Inc.	Box 464, New Philadelphia	Ohio
Steel & Alloy Tank Co.	Pr. Bessemer St. Newark 5	NJ
Temperature Engineering Corp.	1200 Union Landing Rd, Riverton	NJ
Terrisr-Consolidated Industries	22-24 Wooster St. New York 13	NY
Torsion Balance Co.	35 Monehgan St. Clifton	NJ
Townson & Mercer, Ltd.	Beddington Ln, Croydon, Surr, Eng	
Vacuum Specialties Co. Inc.	34 Linden St. Somerville 2	Mass
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Warren Corp.	2901 Brighton Rd, Pittsburgh 12	Pa
Will Corp.	Box 1050, Rochester 3	NY

DRYERS—VACUUM

Cambridge Div. Standard Steel Corp.	2 Industrial Pk, Lowell	Mass
Conrad Inc.	141 Jefferson St. Holland	Mich
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
DELTA DESIGN, INC. Adv Pg 225	7460 Girard Ave. La Jolla	Cal
Edwards High Vacuum Inc.	Cumberland Rd, Burlington, Ont Can	
Gallenkamp & Co. Ltd., A.	Sun St, London, E. C. 2, England	
GENERAL AMERICAN TRANSPORTATION CORP. Adv Pg 58	135 S LaSalle St. Chicago 3	Ill
KEWAUNEE MFG. CO. Adv Pg 86	5083 S Center St. Adrian	Mich
Labline, Inc.	3070-82 W Grand Ave, Chicago 22	Ill
Leybold-Hochvakum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
Lydon Bros. Inc.	85 Zabriskie St. Hackensack	NJ
Modern Lab, Equipment Co., Inc.	1811 1st Ave, New York 28	NY
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. Adv Pg 136	80 Charlemont St. Newton Highlands 61	Mass
Philco Corp. Lansdale Tube Div.	Church Rd, Lansdale	Pa
STOKES CORP., F.J. Adv Pg 85	5500 Tabor Rd. Philadelphia 20	Pa
Will Corp.	Box 1050, Rochester 3	NY

EDDY-CURRENT EQUIPMENT

Allis Co., Louis	427 E Stewart St, Milwaukee 7	Wis
Bently Scientific Co.	2811 7th St. Berkeley 10	Cal
Budd Co. Instruments Div.	Box 245, Phoenixville	Pa
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Delapena & Son Ltd.	Tewkesbury Rd, Cheltenham, Glouc. Eng	
Dice Co., J. W.	Englewood 41	NJ
Epic, Inc.	150 Nassau St, New York 38	NY
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
Maritime Chemical & Repair Corp.	423 Hamilton Ave. Brooklyn 32	NY
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
Unit Process Assemblies	53-15 37th Ave. Woodside 77	NY

ELECTROMETERS
See Also AMMETERS—MICRO-MICRO

Advanced Instruments, Inc.	45N Kenneth St, Newton Highlands 61	Mass
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD. Adv Pg 240	34-01 30th St. LIC 6	NY
APPLIED PHYSICS CORP. Adv Pg 256	2724 S Peck Rd. Monrovia	Cal
Atomasters-Bunraine Corp.	111 W Jewel Ave, St. Louis 22	Mo
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Baldwin Industrial Controls	Dartford, Kent, England	
Cambridge Instrument Co, Inc.	420 Lexington Ave, New York 17	NY
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl, London SW1, Eng	
Caratom	17 Bd. de la Liberation, St. Denis, Seine	Fr
CURTISS-WRIGHT CORP. PRINCETON DIV. Adv Pg 211	Box 110, Princeton	NJ
E-H Research Labs, Inc.	163 Adeline St, Oakland 20	Cal
Ekco Electronics Ltd, Ekco Wks.	Southend-on-Sea, Essex, England	
Electronic Instruments Ltd.	Lower Mortlake Rd, Richmond, Surrey	Eng
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
General Radio Co.	West Concord	Mass
Gyra Electronics Corp.	Box 184 La Grange	Ill
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Honeywell Controls, Ltd.	Vanderhoof Ave, Toronto, Ont Canada	
ISOTOPE DEVELOPMENTS LTD. Adv Pg 239	Bath Rd. Reading, Berks, England	
JOHNSTON LABS. INC., WILLIAM H., Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
LANDSVERK ELECTROMETER CO. Adv Pg 255	641 Sonora Ave. Glendale 1	Cal
Mid-Eastern Electronics, Inc.	32 Commerce St, Springfield	NJ
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Philo. 44	Pa
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
Pye & Co. Ltd., W. G.	York St. Cambridge, England	
Research Specialties Co.	200 S Garrard Blvd. Richmond	Cal
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-D-276R	240 W 17th St. New York 11	NY
VICTOREEN INSTRUMENT CO. Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Will Corp.	Box 1050, Rochester 3	NY

ELECTRON TUBES
See TUBES—ELECTRON

EMERGENCY POWER GENERATORS
See MOTOR-GENERATOR SETS

ENCAPSULATED SOURCES
See SERVICES: RADIOACTIVE SOURCE ENCAPSULATION
RADIOGRAPHIC EQUIPMENT
SOURCES—RADIOACTIVE

ENGINEER-CONSTRUCTOR SERVICE
See SERVICES: ENGINEER-CONSTRUCTOR

ENVIRONMENTAL SURVEYS
See SERVICES: ENVIRONMENTAL SURVEYS

EVAPORATORS

AB Scienta	Kvillegatan 9B, Box 366, Goeteborg	Swed
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
Armstrong Co., Richard M.	Box 566, West Chester	Pa
Badger Mfg. Co.	230 Bent St. Cambridge	Mass
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Cleaver-Brooks Special Products Inc.	225 N Grand Ave. Waukesha	Wis
Condenser Service & Engrg. Co, Inc.	150 Observer Hwy. Hoboken	NJ
DIAMOND POWER SPECIALTY CORP.		
Adv Pg 132	**Box 415 Lancaster**	**Ohio**
Elion Instruments Inc.	430 Buckley St. Bristol	Pa
Fansteel Metallurgical Corp.	North Chicago	Ill
FOSTER WHEELER CORP. Adv Pg 7	**666 5th Ave. New York 19**	**NY**
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can.	
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL AMERICAN TRANSPORTATION CORP.		
Adv Pg 58	**135 S LaSalle St. Chicago 3**	**Ill**
Graham Mfg. Co., Inc.	170 Great Neck Rd. Great Neck	NY
High Vacuum Equipment Corp.	2 Churchill Rd. Hingham	Mass
Ionics Inc.	152 6th St. Cambridge 42	Mass
KELLEY & CO., O. G. Adv Pg 30	**98 Taylor St. Boston 22**	**Mass**
Kinney Vacuum Div. The N. Y. Air Brake Co.	3529 Washington St. Boston 30	Mass
Labline, Inc.	3070-82 W Grand Ave. Chicago 22	Ill
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Mechanical Equipment Co, Inc.	861 Carondelet St. New Orleans 12	La
Meehanite Metal Corp.	714 North Ave. New Rochelle	NY
NATIONAL CARBON CO. DIV. UCC,		
Adv. Pg. 4th Cover	**270 Park Ave. New York 17**	**NY**
National Tank & Boiler Co.	7210 Polson Ln. St. Louis	Mo
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
Northern Research & Engrg. Corp.	238 Main St. Cambridge	Mass
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
Pfaudler Co. Div. Pfaudler Permutit Inc.	1000 West Ave. Rochester 3	NY
PINTSCH BAMAG AG, Adv Pg 276C	**Postfach 11, Butzbach, Germany**	
Rempe Co.	334 N Sacramento Blvd. Chicago 12	Ill
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Schueler & Co.	75 Cliff St. New York 38	NY
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St. Milwaukee 1	Wis
Soc. Des Resines Flourees	21 rue Jean Goujon, Paris 8, France	
Societe Fives-Penhoet	340 rue Saint-Honore, Paris 1, France	
Steinmuller GmbH, L. & C.	Gummersbach, Rheinland, Germany	
STOKES CORP., F. J. Adv Pg 85	**5500 Tabor Rd. Philadelphia 20**	**Pa**
Struthers Wells Corp.	Warren	Pa
Thermal Research & Engineering Corp.	750 Brook Rd. Conshohocken	Pa
Thompson, Ltd., John	Wolverhampton, England	
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
Trane Co.	LaCrosse	Wis
VACUUM-ELECTRONIC CORP.		
Adv Pg 260	**Terminal Dr. Plainview**	**NY**
Vacuum Metallurgical Developments, Ltd.	Shelford, Cambridge, England	
Vulcan Mfg.	Box 22, Cincinnati 15	Ohio
Wallace & Tiernan, Inc.	25 Main St. Belleville 9	NJ
Westinghouse Elec Corp. Steam Div.	Lester	Pa
Whiting Corp.	157 & Lathrop Sts. Harvey	Ill
Will Corp.	Box 1050, Rochester 3	NY
York Corp.	Grantley Rd. York	Pa

EXPANSION JOINTS
See BELLOWS & EXPANSION JOINTS

EXPONENTIAL PILES
See REACTORS

EXTRUSION PRESSES
See *Under* FABRICATING EQUIPMENT

FABRICATING EQUIPMENT—METAL AND CERAMIC
See *Also* EDDY-CURRENT EQUIPMENT
FURNACES—ANNEALING, MELTING, SINTERING
HARDNESS TESTERS
METALLOGRAPHIC EQUIPMENT
RADIOGRAPHIC EQUIPMENT
ULTRASONIC EQUIPMENT

1. *BRAZING*
2. *DRAWING*
3. *EXTRUSION*
4. *MACHINE TOOLS*
5. *MACHINE TOOLS, REMOTELY CONTROLLED*
6. *POWDER METALLURGY, COLD PRESSING*
7. *POWDER METALLURGY, HOT PRESSING*
8. *ROLLING*
9. *SWAGING*
10. *WELDING*

ACF Industries, Inc. 4	750 3rd Ave. New York 17	NY
A.E.I. Ltd. 10	33 Grosvenor Pl. London SW1, Eng	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. 8-9-10,		
Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
Air Liquide. 10	75 Quai d'Orsay, Paris, France	
Air Reduction Co. Inc. 1-10	150 E 42 St. New York 17	NY
Aircraft Ground Equipment. 10	160 Blackswarth Rd. Bristol, Eng.	
Airmec, Ltd. 5	High Wycombe, Bucks. England	
Allied Engineering & Production Corp. 2-3-4-5-6-7	2421 Blanding Ave. Alameda	Cal
Allison Div. Gen. Motors Corp. 10	Box 894, Indianapolis	Ind
Alloys Unlimited, Inc. 1-3-6-7-8	21-01 43rd Ave. LIC 1	NY
Aluminium Wire & Cable Co., Ltd. 10	2 St James's Sq. London SW1, England	
American Gas Furnace Co. 1	140 Spring St. Elizabeth	NJ
American Metal Products Co 6-7-8-9-10	5959 Lindale Ave. Detroit 4	Mich
American Silver Co. Inc. 8	36-07 Prince St. Flushing 54	NY
Anchor Metal Co. Inc. 8	966 Meeker Ave. Brooklyn 22	NY
Arnhold Ceramics, Inc. 6	1 E 57th St. New York 22	NY
Arnold Engineering Co. 8	Box G, Marengo	Ill
Associated Engrg. & Mfg. Corp. 6-7-10	210 Stonehouse Rd. Glen Ridge	NJ
Autoclave Engineers, Inc. 6-7	2930 W 22 St. Erie	Pa
BALDWIN-LIMA-HAMILTON CORP. 2-3-4-6-8-10,		
Adv Pg 103	**Dept N B, Philadelphia 42**	**Pa**
Barnes Co., W. F. & John, 4-5	301 S Water St. Rockford	Ill
Bell Telephone Mfg Co. Nuc Energy Dv 5	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. 5	1128 Fisher Bldg. Detroit 2	Mich
Berk & Co. Ltd., F.W., Costings Div. 6-7	Brent Cres. N Circular Rd. London NW 10, England	
Bliss Co., E. W. 4	1375 Raff Rd. SW, Canton	Ohio
Canadian GE Co. Ltd. 6-8-10	107 Park St. Peterborough, Ont Can	
Cayuga Machine & Fabricating Co. Inc. 9-10	200 W Gould Ave. Depew	NY
Cedar Rapids Engineering Co. 4	902 17th St. NE, Cedar Rapids	Iowa
Chiyoda Chemical Eng & Const Co Ltd 10	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Consolidated Controls Corp. 5	14 Durant Ave. Bethel	Conn
Cook Electric Co, Nucledyne Div, 1-8-10	3412 River Rd. Franklin Park	Ill
Delapena & Son Ltd. 1	Tewkesbury Rd. Cheltenham, Glouc. Eng	
Dental Fillings Ltd. 10	49, Grayling Rd. London N16, England	
DIAMOND POWER SPECIALTY CORP.		
4-10, Adv Pg 132	**Box 415 Lancaster**	**Ohio**
Division Lead Co. 3-8-9	7742 W 61st Pl. Summit	Ill
Doran Co., A. V. 6-7	950 Francis Pl. St. Louis 5	Mo
E.M.I. ELECTRONICS LTD. 5,		
Adv Pg 96	**Hayes, Middlesex, England**	
Eisler Engineering Co. 1-10	765 S 13th St. Newark 3	NJ
Electro-Thermal Industries, Inc. 7	57 S Main St. Pearl River	NY
Elmes/King Div. Amer Steel Foundries 2-3-4-5-6-7	1150 Tennessee Ave. Cincinnati 29	Ohio
Engis Equipment Co. 4-5	431 S Dearborn St. Chicago	Ill
English Electric Co, Ltd. 10	Eng. Elec. Hse. Strand, London WC2	Eng
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks. 5	Goldsmith Ave. Portsmouth, Hants, Eng	
EX-CELL-O CORP. 4-5, Adv. Pgs. 62, 63	**1200 Oakman Blvd. Detroit 32**	**Mich**
Farrel-Birmingham Co. Inc. 3-4-5-6-7-8	Ansonia	Conn
Fenn Mfg. Co. 8-9	200 Fenn Rd. Newington	Conn
Flowline Corp.	New Castle	Pa
General Alloys Co. 8-10	400 W 1st St. Boston 27	Mass
GENERAL ELECTRIC CO. LTD. OF ENGLAND, 10,		
Adv Pg 276BB	**Erith, Kent, England**	
Glessner Co., A. J. 4-5	975 Bryant St. San Francisco 3	Cal
Goodenough Pumps Ltd. 8-10	112 Jermyn St. London SW1, England	
Harnischfeger Corp. 10	4400 W National Ave. Milwaukee 46	Wis
Heald Machine Co., The, 5	10 New Bond St. Worcester 6	Mass
High Vacuum Equipment Corp. 1	2 Churchill Rd. Hingham	Mass
Hitachi, Ltd. 10	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS. 5,		
Adv Pg 74	**Box 90515, Intl. Airpt. Sta. LA 45**	**Cal**
Ingersoll Steel Div, Borg-Warner Corp. 8	New Castle	Ind
International Research Associates, 10	5438 W North Ave. Chicago 39	Ill
Ipsen Industries, Inc. 1	Box 500, Rockford	Ill
Kaydon Engineering Corp., The, 4-5	Muskegon	Mich
Kearney & Trecker Corp. 4	6800 W National Ave. Milwaukee 14	Wis
Kelley Industries Inc. 4	Eighty-Four	Pa
Kelsey-Hayes Co. Utica Drop Forge & Tool Div. 3-6-7-8-9	Utica 4	NY
L. & F. MACHINE CO. 6-7, Adv Pg 238	**2110 Balgrove Ave. Huntington Park**	**Cal**
Land Air Inc. 10	7446 W Wilson Ave. Chicago 31	Ill
Lincoln Electric Co, Ltd. 10	Black Fen Rd, Welwyn Garden City, Herts, Eng	
LINCOLN FOUNDRY CORP. 6-7,		
Adv Pg 238	**2525 E 49 St. Los Angeles**	**Cal**
Lindberg Engineering Co. 1	2450 W Hubbard St. Chicago 12	Ill
LINDE CO. DIV. UCC, 1-10, Adv Pg 222	**270 Park Ave. New York 17**	**NY**

Liquid Carbonic Div. Gen. Dynamics Corp. 10	135 S La Salle St. Chicago 3	Ill
Litton Engineering Labs. 1-4	Box 949, Grass Valley	Cal
Lockheed Aircraft Corp. 4-5-10	Box 551 Burbank	Cal
LOMA MACHINE MFG. CO. INC. 2-5-6-8-9, Adv Pg 226	**114 E 32 St. New York**	**NY**
Louthan Mfg. of Perso Corp. 3	East Liverpool	Ohio
Lukens Steel Co. 10	401 Lukens Bldg. Coatesville	Pa
Marshall-Howlett Ltd. 4	44 Tower Hill, London EC3, England	
Maryland Shipbuilding & Drydock Co. 1-4-8-10	Box 537, Baltimore 3	Md
Mason, Shaver & Rhoades, Inc. 10	Box 551, Irwin	Pa
Max Arc Ltd. 10	44 Terrace Rd. Walton-on-Thames, Surrey, England	
Metal & Plastic Components Ltd. 6	Montgomery St. Birmingham 11, England	
Metal & Thermit Corp. 10	Rahway Ave. Rahway	NJ
Mico Instrument Co. 4	80 Trowbridge St. Cambridge 38	Mass
Morfax Ltd. 10	Willow Ln. Mitcham, Surrey, England	
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. 1-10, Adv Pg 126	**80 Charlemont St. Newton Highlands 61**	**Mass**
National Cylinder Gas Div. Chemetron Corp. 1-10	800 N Michigan Ave. Chicago 11	Ill
National Moldite Co. Inc. 6-7	250 South St. Newark 5	NJ
Norton Co. 4	1 New Bond St. Worcester 6	Mass
Norton & Co. Ltd., Sir James Farmer, Adelphi Iron Wks. 2-4-9	Salford, 3, Manchester, Eng	
Nuclear Metals, Inc. 1-2-3-4-6-7-8-9-10	Box 222 Concord	Mass
Nukem, GmbH, 3-6-8-9-10	Wolfgang bei Hanau/Main, Germany	
Omaton Div. Burndy Corp. 9	Norwalk	Conn
Perforated Products, Inc. 1-4-10	181 Harvard St. Brookline 46	Mass
Process Equipment Co. 5-10	150 Studebaker Rd. Tipp City	Ohio
Raytheon Co Commer Appar & Sys Div 10	1415 Boston-Prov. Tnpk. Norwood	Mass
Research Vacuum Supply Co. 1	6712 N Clark St. Chicago	Ill
Robertson & Co. Ltd., W. H. A. 2-8-9	Lymton Wks. Bedford, England	
Rockwell Co., W. S. 1-2-3	200 Eliot St. Fairfield	Conn
Rockwell Mfg. Co. 4	400 N Lexington Ave. Pittsburgh 8	Pa
Ryerson & Son, Inc., Jos. T. 8-9-10	16 & Rockwell Sts. Chicago 8	Ill
Sciaky Bros. Inc. 10	4915 W 67 St. Chicago 38	Ill
Selas Corp. of America, 1	Dresher	Pa
Semi-Alloys Inc. 2-3-6-7-8-9	550 S Fulton Ave. Mt. Vernon	NY
Sheffield Corp. Sub. Bendix Corp. 4	721 Springfield St. Dayton 1	Ohio
Smith Corp., A. O., Atomic & Process Equip. Div. 10	3533 N 27 St. Milwaukee 1	Wis
Solar Aircraft Co. 1-7	2200 Pacific Hwy. San Diego 12	Cal
Spincraft, Inc. 18	4122 W State St. Milwaukee 8	Wis
STAMAT MFG. CO. INC. 2-6-7-8, Adv Pg 85	**511 Shames Dr. Westbury**	**NY**
Standard Telephones & Cables Ltd. 10	63 Aldwych, London WC2, England	
STOKES CORP., F.J. 1-6-7, Adv Pg 85	**5500 Tabor Rd. Philadelphia 20**	**Pa**
Sundstrand Corp. 4-5	2531 11th St. Rockford	Ill
Taylor, Taylor & Hobson Div. Rank Pzec. Ind. Ltd. 4	Stoughton St. Leicester, England	
Teleweld Inc. 10	11535 Franklin St. Franklin Park	Ill
Thermal Dynamics Corp. 1-10	Lebanon	NH
Thermal Refractories Corp. 6-7	4501 Dell Ave. North Bergen	NJ
THOMSON-HOUSTON (CIE. FRANCAISE), 1, Adv Pg 276B	**173 Blvd. Haussman, Paris 8, France**	
20th Century Electronics Ltd. 1	King Henry's Dr. New Addington, Croydon, Surrey, England	
Union Steel Corp. 2-10	1550 Ashwood Terr. Union	NJ
United Aircraft Products, Inc. 1-10	Box 1035, Dayton 1	Ohio
United Control Systems, Inc. 5	918 Woodley Rd. Dayton 3	Ohio
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. 5-10, Adv. Pgs. 76, 77	**Beach St. Beverly**	**Mass**
U. S. I. Technical Center Div. U. S. Industries, Inc. 5-10	3901 NE 12 Ave. Pompano Beach	Fla
Universal Cyclops Steel Corp. 2-6-8	Bridgeville	Pa
Vacuum Research (Cambridge) Ltd. 1	Quayside, Bridge St. Cambridge, Eng	
Vacuum Specialties Co. Inc. 1-7-10	34 Linden St. Somerville 2	Mass
Vickers-Armstrongs (S. Marston) Ltd. 10	Swindon, Wiltshire, England	
Vickers, Inc. Electric Products Div. 10	1815 Locust St. St. Louis 3	Mo
Wall Colmonoy Corp. Stainless Processing Div. 1	19344 John R. St. Detroit 3	Mich
Wang Laboratories, 5	12 Huron Dr. Natick	Mass
Waterbury Farrel Foundry & Machine Co. Div. Textron, Inc. 2-3-4-8-9	Box 70, Waterbury 20	Conn
Weldmatic Div. Unitek Corp. 10	950 Royal Oaks Dr. Monrovia	Cal
York Corp. 1-6-9-10	Grantley Rd. York	Pa

FACE MASKS
See MASKS—PROTECTIVE

FAILED-FUEL DETECTORS
See DETECTORS—BURST-SLUG

FANS & BLOWERS

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Aero Supply Mfg. Co. Inc.	Corry	Pa
Air Controls Inc.	2310 Superior Ave. Cleveland 14	Ohio
Air Marine Motors, Inc.	369 Bay View Ave. Amityville	NY
Air-Shields, Inc.	Hatboro	Pa
Amco Engineering Co.	7333 Ainslie St. Chicago 31	Ill
American Agile Corp.	Box 168, Bedford	Ohio
American Air Filter Co.	215 Central Ave. Louisville 8	Ky
American-Standard Industrial Div.	Detroit 32	Mich
American-Standard Prod. (Can) Ltd.	1201 Dupont St. Toronto 4, Ont Can	
Bud Radio, Inc.	2118 E 55 St. Cleveland 3	Ohio
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Carrier Corp.	Carrier Pkwy. Syracuse 1	NY
Clarage Fan Co.	1 Clarage Pl. Kalamazoo	Mich
Coppus Engineering Corp.	334 Park Ave. Worcester	Mass
Dayton Electric Mfg. Co.	126 S Oakley Blvd. Chicago 12	Ill
Duriron Co. Inc.	450 N Findlay St. Dayton 4	Ohio
Eastern Air Devices, Inc.	385 Central Ave. Dover	NH
Eclipse Fuel Engineering Co.	1100 Buchanan, Rockford	Ill
Eicor Div. Scranton Corp.	4059 W North Ave. Chicago 39	Ill
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Escher Wyss Ltd.	Zurich, Switzerland	
Fasco Industries, Inc.	255 N Union St. Rochester 2	NY
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
GENERAL AMERICAN TRANSPORTATION CORP. Adv Pg 58	**135 S LaSalle St. Chicago 3**	**Ill**
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	**Erith, Kent, England**	
HILD FLOOR MACHINE CO. INC. Adv Pg 233	**1217 W Washington Blvd. Chicago**	**Ill**
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Ilg Electric Ventilating Co.	2850 N Pulaski Rd. Chicago 41	Ill
Joy Mfg. Co. Industrial Div.	H. W. Oliver Bldg. Pittsburgh 22	Pa
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	**1150 McBride Ave. Little Falls**	**NJ**
KEWAUNEE MFG. CO. Adv Pg 86	**5083 S Center St. Adrian**	**Mich**
Koppers Co. Inc. Nuclear Prods. Sec.	Pittsburgh 19	Pa
Manson Laboratories, Inc.	375 Fairfield Ave. Stamford	Conn
Martindale Electric Co.	Box 617, Edgewater Br. Cleveland 7	Ohio
Matthews & Yates Ltd. Cyclone Wks.	Swinton, Manchester, England	
Metalab Equipment Co.	270 Duffy Ave. Hicksville	NY
Midland Heating & Ventilation Co. Ltd.	Bedford Rd. Birmingham 11, England	
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Pesco Products Div. Borg-Warner Corp.	24700 N Miles Rd. Bedford	Ohio
Robbins & Myers, Inc.	1345 Lagonda Ave. Springfield	Ohio
Roots-Connersville Blower Div. Dresser Industries, Inc.	900 W Mount St. Connersville	Ind
Rotron Manufacturing Co.	Hasbrouck Ln. Woodstock	NY
Small Motors, Inc.	2076 Elston Ave. Chicago 14	Ill
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
STANAT MFG. CO. INC. Adv Pg 85	**511 Shames Dr. Westbury**	**NY**
Sulzer Bros.	Winterthur, Switzerland	
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Trane Co.	LaCrosse	Wis
U.S. Hoffman Machinery Corp.	103 4th Ave. New York 3	NY
Vactric (Control Equipment) Ltd.	Sloane St. London SW1, England	
Vacuum Metallurgical Developments, Ltd.	Shelford, Cambridge, England	
Westinghouse Elec Corp. Sturtevant Div.	Boston 36	Mass
Whittaker Hall & Co. (1929) Ltd.	Radcliffe, Manchester, England	

FEED-WATER HEATERS
See HEATERS—FEED WATER

FILM-BADGE SERVICES
See SERVICES: FILM BADGE

FILM BADGES
See DOSIMETERS—RADIATION

FILTERS—AIR
See Also AIR-FILTER CHANGERS

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Aero Supply Mfg. Co. Inc.	Corry	Pa
Air-Maze Corp. Sub. Rockwell-Standard Corp.	25000 Miles Rd. Cleveland 28	Ohio
Air Pollution Control Div. John Wood Co.	Essex Bldg. Bernardsville	NJ
Air-Shields, Inc.	Hatboro	Pa
Aircraft Porous Media, Inc.	Glen Cove	NY
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
American Air Filter Co.	215 Central Ave. Louisville 8	Ky
American Felt Co.	Glenville Rd. Glenville	Conn
Anderson Co., V. D., Div. Intl. Basic Economy Corp.	1935 W 96th St. Cleveland 2	Ohio

AUTOMATIC SWITCH CO. Adv Pg 87	**56M Hanover Rd. Florham Park**	**NJ**
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Bullard Co., E. D.	2680 Bridgeway, Sausalito	Cal
CAMBRIDGE FILTER CORP. Adv. Pgs. 50, 122	**726 E Erie Blvd. Syracuse 1**	**NY**
Commercial Filters Corp.	2 Main St. Melrose 76	Mass
Conoflow Corp.	2100 Arch St. Philadelphia 3	Pa
Consolidated Engines & Machy Co. Ltd.	5645 Pare St. Mt. Royal, Montreal, Can	
Continental Air Filters, Inc.	Box 1647, Louisville 1	Ky
Coppus Engineering Corp.	334 Park Ave. Worcester	Mass
De Vilbiss Co.	300 Phillips Ave. Toledo 1	Ohio
Dollinger Corp.	11 Centre Pk. Rochester 3	NY
Donaldson Co. Inc.	666 Pelham Blvd. St. Paul 14	Minn
Douglas Engineering Co. Ltd.	195 Bridgeland Ave. Toronto 19, Ont	Can
Filtronics Inc.	Box 200, Cowell	Cal
FLANDERS FILTERS, INC. Adv Pg 98	**Box 718, Riverhead**	**NY**
Gelman Instrument Co.	106 N Main St. Chelsea	Mich
Harvey & Co. (London) Ltd., G. A.	Woolwich Rd. London, SE7, England	
KEWAUNEE MFG. CO. Adv Pg 86	**5083 S Center St. Adrian**	**Mich**
Koppers Co. Inc. Nuclear Prods. Sec.	Pittsburgh 19	Pa
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
Matthews & Yates Ltd. Cyclone Wks.	Swinton, Manchester, England	
Millipore Filter Corp.	Bedford	Mass
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. IND. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Avas. Phila. 44**	**Pa**
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	**196 Degraw St. Brooklyn 31**	**NY**
Perforated Products, Inc.	181 Harvard St. Brookline 46	Mass
Pulverizing Machinery Co. Div. American-Marietta Co.	Chatham Rd. Summit	NJ
Purolator Products, Inc.	970 New Brunswick Ave. Rahway	NJ
Research Equipment Co.	502 Sunnyside, Wheaton	Ill
Rousseau Controls Ltd.	640 Decourcelle St. Montreal, Que. Can.	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Sethco Mfg. Corp. 1	2284 Babylon Tnpk. Merrick	NY
Staplex Co. Air Sampler Div.	783 5th Ave. Brooklyn 32	NY
Terrisr-Consolidated Industries	22-24 Wooster St. New York 13	NY
Trinity Equipment Corp.	Box 1172, Cortland	NY
Trion Inc.	1000 Island Ave. McKees Rocks	Pa
Vokes Canada Div Douglas Engrg Co Ltd.	195 Bridgeland Ave. Toronto 19, Ont	
Vokes Ltd.	Guildford, Surrey, Eng.	
Westinghouse Elec Corp. Sturtevant Div.	Boston 36	Mass
Wheelabrator Corp. Dust & Fume Control Div.	1483 S Byrkit St. Mishawaka	Ind

FILTERS—FLUID

1. *ASBESTOS*
2. *CERAMIC*
3. *COTTON*
4. *GLASS*
5. *METALLIC*
6. *PAPER*
7. *PLASTIC*
8. *RUBBER*
9. *SYNTHETIC FIBER*

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. 4-9, Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
Aero Supply Mfg. Co. Inc. 5	Corry	Pa
Air-Maze Corp. Sub. Rockwell-Standard Corp. 5	25000 Miles Rd. Cleveland 28	Ohio
Air Pollution Control Div. John Wood Co.	Essex Bldg. Bernardsville	NJ
Aircraft Porous Media, Inc. 4-5	Glen Cove	NY
Airmatic Valve, Inc. 5	7313 Associate Ave. Cleveland 9	Ohio
Allied Plastics Supply Corp. 6-7-8-9	75 Cliff St. New York 38	NY
Allied Resinous Products, Inc. 7	Whitney Rd. & Clark St. Conneaut	Ohio
American Agile Corp. 7	Box 168, Bedford	Ohio
American Felt Co. 3	Glenville Rd. Glenville	Conn
Andrew Co., Otis 1	231 W Court St. Cincinnati 2	Ohio
Bendix Corp. 5	1128 Fisher Bldg. Detroit 2	Mich
Centralab Div. Globe-Union, Inc. 2	900 E Keefe Ave. Milwaukee 1	Wis
Chem-Pure Service Co.	762 Industrial Rd. San Carlos	Cal
Commercial Filters Corp. 1-2-3-4-5-6-9	2 Main St. Melrose 76	Mass
Condenser Service & Engrg. Co. Inc. 1	150 Observer Hwy. Hoboken	NJ
Consolidated Engines & Machy Co. Ltd. 7	5645 Pare St. Mt. Royal, Montreal, Can	
Corning Glass Works, 2-4	Corning	NY
Croll-Reynolds Engineering Co. 2-5-7	1122 Main St. Stamford	Conn
Cuno Engineering Corp. 3-5-9	88 S Vine St. Meriden	Conn
Dollinger Corp. 1-2-3-4-5-6-7-9	11 Centre Pk. Rochester 3	NY
Dorr-Oliver Inc. 3-4-5-7-8-9	77 Havemeyer Ln. Stamford	Conn
Du-Co Ceramics Co. 2	Box 278, Saxonburg	Pa
Duriron Co. Inc. 5	450 N Findlay St. Dayton 4	Ohio
Dynamic Filters Inc. 5	1565 Oakman Blvd. Detroit 38	Mich
Electro-Ceramics, Inc. 2	2645 S 2 W. Salt Lake City 15	Utah
Ertel Engineering Corp. 1-5-6-7-8	Kingston 31	NY
Esso Standard Div Humble Oil & Ref Co 7	15 W 51st St. New York 19	NY
Felters Co., The, 9	210 South St. Boston 11	Mass
Fish-Schurman Corp. 4	70 Portman Rd. New Rochelle	NY
Gelman Instrument Co. 1-4-7-9	106 N Main St. Chelsea	Mich
Gladding, McBean & Co. 2	1551 S Primrose St. Monrovia	Cal
Haskell Engineering Co. 5	1236 S Central Ave. Glendale 4	Cal
Hoke, Inc. 5	1 Tenakill Park, Cresskill	NJ
Holley Carburetor Co. 5	11955 E 9 Mile Rd. Warren	Mich
Industrial Filter & Pump Mfg. Co. 3-5-6-7-8-9	5900 Ogden Ave. Cicero 50	Ill
JENAER GLASWERK SCHOTT & GEN. 4, Adv Pg 276Z	**10 Hattenberstr. Mainz/Rhein W Ger**	
Johns-Manville, 1-4-7	22 E 40th St. New York 16	NY
Keasbey & Mattison Co. 1	Ambler	Pa
Keuffel & Esser Co. 4	300 Adams St. Hoboken	NJ
Marvel Engineering Co. 5	7227 N Hamlin Ave. Chicago 45	Ill
Metal & Plastic Components Ltd. 5	Montgomery St. Birmingham 11, England	
Microchemical Specialties Co. 4	1825 Eastshore Hwy. Berkeley 10	Cal
Newark Wire Cloth Co. 5	351 Verona Ave. Newark 4	NJ
Olson Filtration Engineers, Inc. 9	5024 Section Ave. Cincinnati 12	Ohio
Perforated Products, Inc. 2-5-7	181 Harvard St. Brookline 46	Mass
PICKER X-RAY CORP. 5, Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Pittsburgh Plate Glass Co. 4	632 Fort Duquesne Blvd. Pittsburgh 22	Pa
Polypenco Ltd. 7	68-70 Tewin Rd. Welwyn Gdn. City, Herts, England	
Process Filters Div. Bowser Inc. 1-5-6-7-8-9	1302 Creighton Ave. Fort Wayne	Ind
Purolator Products, Inc. 5-6	970 New Brunswick Ave. Rahway	NJ
Rousseau Controls Ltd. 6	640 Decourcelle St. Montreal, Que. Can.	
SAINT GOBAIN, 4-6, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Selas Corp. of America	Dresher	Pa
Sethco Mfg. Corp. 2-3-4-5-7-9	2284 Babylon Tnpk. Merrick	NY
Shriver & Co Inc., T. 1-2-3-4-5-6-7-8-9	864 Hamilton St. Harrison	NJ
Sintered Products Ltd. 5	Hamilton Rd. Sutton Ashfield, Notts. Eng.	
Solar Aircraft Co. 2-5	2200 Pacific Hwy. San Diego 12	Cal
Star Porcelain Co. 2	21 Muirhead Ave. Trenton	NJ
Terrisr-Consolidated Industries, 3-6-9	22-24 Wooster St. New York 13	NY
Thermal Refractories Corp. 2	4501 Dell Ave. North Bergen	NJ
Thomas Co., Arthur H. 2-4-6	Vine St. at 3rd. Philadelphia 5	Pa
Thompson Fiber Glass Co., H. I. 4	1733 Cordova St. Los Angeles 7	Cal
U. S. STONEWARE CO. 2, Adv Pg 79	**Akron 9**	**Ohio**
Vanton Pump & Equipment Corp. 7	Bloy St. & Ramsey Ave. Hillside	NJ
Vokes Canada Div Douglas Engrg Co Ltd, 1-2-3-4-5-6-7-8-9	195 Bridgeland Ave. Toronto 19, Ont	
Vokes Ltd. 3-5-6-9	Guildford, Surrey, Eng.	
Wilmad Glass Co. 4	Rt. 40 & Oak Rd. Buena	NJ

FILTERS—R-F

Ace Engineering & Machine Co. Inc.	Tomlinson Rd. Huntington Valley	Pa
Air Liquide	75 Quai D'Orsay, Paris, France	
Air-Maze Corp. Sub. Rockwell-Standard Corp.	25000 Miles Rd. Cleveland 28	Ohio
American Electronic Labs. Inc.	121 N 7th St. Philadelphia 6	Pa
Astron Corp.	255 Grant Ave. East Newark	NJ
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Blickman, Inc., S.	7900 Gregory Ave. Weehawken	NJ
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd. Santa Ana	Cal
Columbia Technical Corp.	61-02 31 Ave. Woodside 77	NY
Communication Accessories Co.	Lee's Summit	Mo
Connecticut Hard Rubber Co.	New Haven 9	Conn
Continental Air Filters, Inc.	Box 1647, Louisville 1	Ky
Cornell-Dubilier Electronics Div. Fed. Pacific Elec. Co.	1605 Rodney French Blvd. New Bedford	Mass
De Mornay-Bonardi, Inc.	780 S Arroyo Pkwy. Pasadena	Cal
E. M. I. ELECTRONICS LTD. Adv Pg 96	**Hayes, Middlesex, England**	
ESC Electronics Corp.	534 Bergen Blvd. Palisades Park	NJ
General Radio Co.	West Concord	Mass
Hermes Electronics Co.	75 Cambridge Pkwy. Cambridge 42	Mass
Hermetic Seal Transformer Co. Div. Dresser Industries, Inc.	555 N 5th St. Garland	Tex
Johnson Co., E. F.	Waseca	Minn
Litton Industries	336 N Foothill Rd. Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
McMillan Industrial Corp.	Brownville Ave. Ipswich	Mass
New York Transformer Co. Inc.	3rd Ave. Alpha	NJ
Ortho Filter Corp.	7 Paterson St. Paterson 1	NJ
Perforated Products, Inc.	181 Harvard St. Brookline 46	Mass
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
RS Electronics Corp.	435 Portage Ave. Palo Alto	Cal
Raytheon Co. Commer Appar. & Sys Div.	1415 Boston-Prov. Tnpk. Norwood	Mass
Raytheon Co. Ind. Comps. Div.	55 Chapel St. Newton	Mass
Sangamo Electric Co.	11 & Converse Sts. Springfield	Ill
Sickles Div. Gen. Instrument Corp.	165 Front St. Chicopee	Mass
Spencer-Kennedy Labs. Inc.	1320 Soldiers Field Rd. Boston 35	Mass
Sprague Electric Co.	Marshall St. North Adams	Mass
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Telectro Industries Corp.	35-16 37th St. LIC 1	NY

Telonic Engineering Corp.	773 Broadway, Laguna Beach	Cal
Telonic Industries, Inc.	60 N 1st Ave. Beech Grove	Ind
United Transformer Corp.	150 Varick St. New York	NY
Valor Instruments, Inc.	13214 Crenshaw Blvd. Gardena	Cal
Western Precipitation Div. Joy Mfg. Co.	1000 W 9th St. LA 54	Cal
WESTINGHOUSE ELECTRIC CORP. ELECTRONIC TUBE DIV. Adv. Pgs. 82, 83, 138, 139	Box 284, Elmira	NY

FILTERS—RADIATION
See ABSORBERS—RADIATION

FISSION CHAMBERS
See CHAMBERS—FISSION

FITTINGS—PIPE
See PIPE FITTINGS

FLANGES—PIPE

ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Allied Plastics Supply Corp.	75 Cliff St. New York 38	NY
Allmetal Screw Products Co, Inc.	821 Stewart Ave, Garden City	NY
Cooper Alloy Corp.	Bloy St.-Ramsey Av. Hillside	NJ
CRANE CO. Adv. Pgs. 12, 13	4100 S Kedzie Ave. Chicago 32	Ill
Davidson Steel Corp.	444 Madison Ave. New York 22	NY
Durapipe & Fittings, Ltd.	56 Kingsway, London, WC2, England	
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Grinnell Co.	260 W Exchange St. Providence 1	RI
Ladish Co.	5481 S Packard Ave, Cudahy	Wis
Mechanite Metal Corp.	714 North Ave. New Rochelle	NY
Moffat Engineering Co. Ltd.	77 S Audley St. London W1, England	
North British Steel Foundry Ltd.	Bathgate, W Lothian, Scotland	
OPW-Jordan	6013 Wiehe Rd. Cincinnati 13	Ohio
Pennsylvania Forge Div. Chemetron Corp.	Milnor & Bleigh, Phila 35	Pa
PHOENIX-RHEINROHR AG, Adv Pg 276K	August-Thyssen-Str. 1, Duesseldorf, Ger	
S. I. A. C. Adv Pg 276T	Via S. Sebastiano 2, Genoa, Italy	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
SANDUSKY FOUNDRY & MACHINE CO. Adv Pg 94	W Market St. Sandusky	Ohio
Speedline Fittings Div Horace T. Potts Co	Erie Ave. & D St. Philadelphia 34	Pa
Talbot Stead Tube Co, Ltd.	Green Ln, Walsall, Staffs, England	
Taylor Forge & Pipe Works	Box 485, Chicago	Ill
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Tube Turns Div. Chemetron Corp.	224 E Broadway, Louisville 1	Ky
Tube Turns Plastics, Inc.	2929 Magazine St. Louisville 11	Ky
Vacuum Metallurgical Developments, Ltd.	Shelford, Cambridge, England	
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St, Cambridge, Eng	
Vanton Pump & Equipment Corp.	Bloy St. & Ramsey Ave. Hillside	NJ
Vogt Machine Co., Henry	1000 W Ormsby St. Louisville	Ky

FLOW COUNTERS
See COUNTERS—RADIATION

FLOW INDICATORS
See CONTROLS—FLUID-FLOW
METERS—FLOW
TRANSDUCERS

FLUORIMETERS

Ball Brothers Research Corp.	Boulder Industrial Pk. Boulder	Colo
Caratom	17 Bd. de la Liberation, St. Denis, Seine	Fr
Electronic Instruments Ltd.	Lower Mortlake Rd, Richmond, Surrey	Eng
Engis Equipment Co.	2800 S Dearborn St. Chicago	Ill
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
MARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Uranium Instruments Co.	Box 1191, Grand Junction	Colo
Will Corp.	Box 1050, Rochester 3	NY

FLUOROSCOPES—X-RAY

AEROJET-GENERAL NUCLEONICS, Adv Pg 119	Box 77, San Ramon	Cal
Bracke-Seib X-Ray Co. Inc.	16 Pelham Bay Park W. Pelham Manor	NY
CURTISS-WRIGHT CORP. PRINCETON DIV. Adv Pg 211	Box 110, Princeton	NJ
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Mitchell Radiation Products Corp.	E Washington St. Norristown	Pa
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
Praziisionsmessgerate RSV	13b Hechendorf/Pilsensee, Germany	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	

FLUXMETERS

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Cambridge Instrument Co, Inc.	420 Lexington Ave. New York 17	NY
DYNA-EMPIRE, INC. Adv Pg 247	1075 Stewart Ave. Garden City	NY
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
RAWSON ELECTRICAL INSTRUMENT CO. Adv Pg 254	114 Potter St. Cambridge 42	Mass
Varian Associates	611 Hansen Way, Palo Alto	Cal

FLUX MONITORS
See FLUXMETERS

FOILS—NEUTRON-DETECTION

AEROJET-GENERAL NUCLEONICS, Adv Pg 119	Box 77, San Ramon	Cal
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chromium Corporation of America	Box 1229, Waterbury 20	Conn
CONTROLS FOR RADIATION, INC. Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Division Lead Co.	7742 W 61st Pl. Summit	Ill
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	St. Louis	Mich
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
20th Century Electronics Ltd.	King Henry's Dr, New Addington, Croydon, Surrey, England	
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 200, Burbank	Cal
Universal Nuclear Corp.	178-03 Hillside Ave. Jamaica 32	NY

FORGINGS

ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
American Hollow Boring Co.	1948 Raspberry St, Erie 4	Pa
Atlas Titanium, Ltd.	Centre St, Welland, Ontario, Canada	
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	Dept N B, Philadelphia 42	Pa
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
CAMERON IRON WORKS, INC. Adv Pg 127	Box 1212, Houston	Tex
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Curtiss-Wright Corp. Metals Processing Div.	Buffalo 15	NY
Davidson Steel Corp.	444 Madison Ave. New York 22	NY
English Steel Corp. Ltd. River Don Wks.	Sheffield 9, Yorkshire, England	
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
HARVEY ALUMINUM, Adv Pg 93	19200 S Western Ave. Torrance	Cal
Heppenstall Co.	Pittsburgh	Pa
Industrial Forge & Steel, Inc.	1501 Allen Ave, SE, Canton	Ohio
Klockner-Werke AG.	Bessemerstr. 1, Osnabruck, Germany	
Ladish Co.	5481 S Packard Ave, Cudahy	Wis
Larson & Sons, Inc., Charles E.	2665 N Keeler Ave. Chicago	Ill
Moffat Engineering Co. Ltd.	77 S Audley St. London W1, England	
National Forge Co.	10 Front St. Irvine, Warren County	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Pennsylvania Forge Div. Chemetron Corp.	Milnor & Bleigh, Phila 35	Pa
S. I. A. C. Adv Pg 276T	Via S. Sebastiano 2, Genoa, Italy	
Steel Improvement & Forge Co., The	970 E 64 St. Cleveland 3	Ohio
Taylor Forge & Pipe Works	Box 485, Chicago	Ill
Thompson Products Ltd.	St. Catharines, Ont Canada	
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Tube Turns Div. Chemetron Corp.	224 E Broadway, Louisville 1	Ky
U. S. STEEL CORP. Adv. Pgs. 56, 57	525 Wm. Penn Pl. Pittsburgh 30	Pa

FOUNTAINS—EYE
See *Also* DECONTAMINATING EQUIPMENT

HAWS DRINKING FAUCET CO. Adv Pg 100	1439 4th St. Berkeley 10	Cal
Logan Emergency Showers, Inc.	136 N Maryland Ave. Box 111, Glendale	Cal
New Jersey Safety Equipment Co.	299 Park Ave. East Orange	NJ

FUEL—"COLD" SCRAP RECOVERY
See SERVICES: FUEL-SCRAP RECOVERY, "COLD"

FUEL-ELEMENT STORAGE EQUIPMENT
See SHIELDING—RADIATION
CONTAINERS—FUEL ELEMENT ("COLD")

FUEL ELEMENTS
See Also FABRICATING EQUIPMENT
FUEL-ELEMENT STORAGE EQUIPMENT
METALS, ALLOYS & COMPOUNDS—THORIUM, URANIUM
REFUELING EQUIPMENT—REACTOR
SERVICES: FUEL SCRAP RECOVERY, THORIUM CONVERSION, URANIUM CONVERSION

TYPES OFFERED:
1. *ALUMINUM*
2. *CERAMICS*
3. *CERMETS*
4. *GRAPHITE*
5. *HIGHLY ENRICHED U*
6. *POWDER COMPACTS*
7. *STAINLESS STEEL*
8. *ZIRCONIUM*

A. M. F. Atomics Canada Ltd 1-2-6-7-8	Port Hope, Ont. Can.	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. 1-7-8, Adv Pg 249	261 Madison Ave. New York 16	NY
AEROJET-GENERAL NUCLEONICS, 2-4-5-6, Adv Pg 119	Box 77, San Ramon	Cal
Allegheny Ludlum Steel Corp, 7-8	Oliver Bldg. Pittsburgh 22	Pa
Alloys Unlimited, Inc. 1-2-3	21-01 43rd Ave. LIC 1	NY
Aluminum Co. of America, 1	1501 Alcoa Bldg. Pittsburgh 19	Pa
American Metal Products Co 1-2-3-4-5-6-7-8	5959 Linsdale Ave. Detroit 4	Mich
Atomics International Div, NAA, 1-2-3-5-7-8	Box 309, Canoga Park	Cal
AVERY & SAUL CO. 7, Adv Pg 8	115 Rindge Ave. Cambridge	Mass
BABCOCK & WILCOX CO. 1-2-3-4-5-6-7-8, Adv Pg 1	161 E 42 St. New York 17	NY
BELGONUCLEAIRE, 6, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Bram Metallurgical-Chemical Co. 7-8	820 65th Ave. Philadelphia 26	Pa
Canadian GE Co. Ltd. 1-2-7-8	107 Park St. Petersborough, Ont Can	
Centralab Div. Globe-Union, Inc. 2	900 E Keefe Ave. Milwaukee 1	Wis
Combustion Engineering, Inc. 1-2-3-5-6-7-8	200 Madison Ave. New York 16	NY
Curtiss-Wright Corp. Research Div. 1-2-3-7-9	Quehanna	Pa
DRESSER PRODUCTS, INC. 2-4-6-7-8, Adv Pg 92	Great Barrington	Mass
Du-Co Ceramics Co. 2	Box 278, Saxonburg	Pa
Eldorado Mining & Refining Ltd. 1-2-6-8	John St. Port Hope, Ontario, Canada	
Foster Wheeler Ltd. 4	Box 430, St. Catharines, Ontario, Can.	
General Alloys Co. 7	400 W 1st St. Boston 27	Mass
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. 1-2-3-4-5-6-7-8, Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 1-2-5-6-7-8, Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Hitachi, Ltd. 1-2-7-8	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Industrial Forge & Steel, Inc. 8	1501 Allen Ave, SE, Canton	Ohio
Job-O-Steinbeck, 2	Reinbek, Bz. Hmb, Germany	
Klockner-Werke AG, 7	Bessemerstr. 1, Osnabruck, Germany	
MALLINCKRODT NUCLEAR CORP. 2-6, Adv Pg 29	2nd & Mallinckrodt Sts. St. Louis 7	Mo
MARTIN CO. NUCLEAR DIV. 1-2-3-4-5-6-7, Adv Pg 5	Mail G-3037 Baltimore 3	Md
Minnesota Mining & Mfg. Co. 2-3-4-5-6	900 Bush Ave. St. Paul 6	Minn
NATIONAL CARBON CO. DIV. UCC, 4, Adv. Pg. 4th Cover	270 Park Ave. New York 17	NY
NATIONAL LEAD CO. 1-2-3-4-5-6-7-8, Adv. Pgs. 134, 135	111 Broadway, New York 6	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA, 2-3-5-6-7, Adv Pg 32	5 New St. White Plains	NY
Nuclear Metals, Inc. 1-2-3-4-5-6-7-8	Box 222 Concord	Mass
Nukem, GmbH, 1-2-3-4-5-6-7-8	Wolfgang bei Hanau/Main, Germany	
Olin Mathieson Chemical Corp. Nuclear Fuels Oper. 1-2-3-4-5-7-8	275 Winchester Ave. New Haven	Conn
PECHINEY, 1-2-3-4-6-8, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
PHOENIX-RHEINROHR AG, 7, Adv Pg 276K	August-Thyssen-Str. 1, Dusseldorf, Ger	
Reetz Co., Robert C, 7	81 Montgomery St. Pawtucket	RI
RIO TINTO MINING CO. OF CANADA LTD. 1-2-3-4-6-7-8, Adv Pg 108	335 Bay St. Toronto, Ont Canada	
S. E. P. I. 1-8	4, rue de Londres, Paris 9, France	
SAINT GOBAIN, 1-2, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
SHOWA DENKO K. K. 1-2-4-6, Adv Pg 276W	34 Shibe Miyamoto-cho, Minato-ku, Tokyo, Japan	
Siemens-Plania Chem. Fabrik, 4	Griesheim, Meitingen uber Augsburg, Ger	
Sintered Products Ltd. 7	Hamilton Rd. Sutton Ashfield, Notts. Eng.	
SOCIETE INDUSTRIELLE DE COMBUSTIBLE NUCLEAIRE, 1-2-7-8, Adv Pg 137	69 rue de Monceau, Paris 8, France	
Solar Aircraft Co. 2-3-4-7	2200 Pacific Hwy. San Diego 12	Cal
Speer Carbon Co. 4	Theresa St. St. Marys	Pa
Star Porcelain Co. 2	21 Muirhead Ave. Trenton	NJ
Sylvania-Corning Nuclear Corp. 1-2-3-4-5-6-7-8	208-20 Willets Point Blvd, Bayside	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), 1-2-3-4-5-6-7-8, Adv Pg 2	Box 898, Attleboro	Mass
Thermal Refractories Corp, 2-3	4501 Dell Ave, North Bergen	NJ
TOKYO SHIBAURA ELECTRIC CO., LTD. 2, Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
VITRO CHEMICAL CO. 2, Adv Pg 254	342 Madison Ave. New York 17	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. 1-2-5-6-7-8, Adv. Pgs. 138, 139, 144	Cheswick	Pa

FUELS—REACTOR
See FUEL ELEMENTS

FUME HOODS

Accurate Sheet Metal & Mfg. Works	2336-44 Milwaukee Ave. Chicago 47	Ill
Air-Shields, Inc.	Hatboro	Pa
Air & Refrigeration Corp.	439 Madison Ave. New York 17	NY
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
American Agile Corp.	Box 168, Bedford	Ohio
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Blickman, Inc., S.	7900 Gregory Ave. Weehawken	NJ
Brown Laboratory, Hood Div.	2263 Broadway, Grand Junction	Colo
Brown-Morse Co.	110 E Broadway, Muskegon	Mich
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Division Lead Co.	7742 W 61st Pl. Summit	Ill
DUBLIN INDUSTRIES, INC. Adv Pg 258	11824 Dublin Blvd. Hayward	Cal
Duralab Equipment Corp.	989 Linwood St. Brooklyn 8	NY
Fasco Industries, Inc.	255 N Union St. Rochester 2	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
KELLEY & CO., O. G. Adv Pg 30	98 Taylor St. Boston 22	Mass
KEWAUNEE MFG. CO. Adv Pg 86	5083 S Center St. Adrian	Mich
Labline, Inc.	3070-82 W Grand Ave, Chicago 22	Ill
Laboratory Furniture Co. Inc.	Old Country Rd. Mineola	NY
LaPine & Co., Arthur S.	6001 S Knox Ave, Chicago 29	Ill
Lennard Co. Inc., P. M.	1061 E 8th St. Jacksonville 6	Fla
Matthews & Yates Ltd, Cyclone Wks.	Swinton, Manchester, England	
Metalab Equipment Co.	270 Duffy Ave. Hicksville	NY
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
Plastimayd Corp.	2204 SE 7th Ave. Portland 14	Ore
Reetz Co., Robert C.	81 Montgomery St, Pawtucket	RI
Temperature Engineering Corp.	1200 Union Landing Rd, Riverton	NJ
Terrise-Consolidated Industries	22-24 Wooster St. New York 13	NY
Warren Corp.	2901 Brighton Rd. Pittsburgh 12	Pa
Wheelabrator Corp. Dust & Fume Control Div.	1483 S Byrkit St. Mishawaka	Ind

FURNACES—ANNEALING
1. *INERT-ATMOSPHERE*
2. *VACUUM*

A. E. I. Ltd. 2	33 Grosvenor Pl. London SW1, Eng	
American Gas Furnace Co. 1	140 Spring St. Elizabeth	NJ
Brew & Co. Inc., Richard D. 2	90 Airport Rd. Concord	NH
Cayuga Machine & Fabricating Co. Inc. 1-2	200 W Gould Ave. Depew	NY
Consolidated Electrodynamics Corp. 2	360 Sierra Madre Villa, Pasadena	Cal
Consolidated Vacuum Corp. 2	1775 Mt. Read Blvd. Rochester	NY
DELTA DESIGN, INC. 2, Adv Pg 225	7460 Girard Ave. La Jolla	Cal
Edwards High Vacuum Inc. 2	Cumberland Rd. Burlington, Ont Can	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 2, Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, 1-2, Adv Pg 276BB	Erith, Kent, England	
Grieve-Hendry Co. Inc. 1-2	1360 N Elston Ave. Chicago 22	Ill
Hevi-Duty Electric Co. Div. Basic Products Corp. 1-2	Box 563, Milwaukee 1	Wis
High Vacuum Equipment Corp. 2	2 Churchill Rd. Hingham	Mass
Huppert, Co., K. H. 1-2	6830 S Cottage Grove Ave. Chicago 37	Ill
Ipsen Industries, Inc. 1-2	Box 500, Rockford	Ill
KEWAUNEE MFG. CO. 2, Adv Pg 86	5083 S Center St. Adrian	Mich
Kinney Vacuum Div. The N. Y. Air Brake Co. 2	3529 Washington St. Boston 30	Mass
Leybold-Hochvakuum-Anlagen GmbH, 2	Bonner Str. 504, Koln-Bayenthal, Ger	
Lindberg Engineering Co. 1-2	2450 W Hubbard St. Chicago 12	Ill
Liquid Metals, Inc. 1	Box 2666, Westford	Mass

Modern Lab. Equipment Co., Inc. 2	1811 1st Ave. New York 28	NY
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. 2,		
Adv Pg 136	80 Charlemont St. Newton Highlands 61	Mass
New York Air Brake Co. 2	230 Park Ave. New York 17	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA, 1-2,		
Adv Pg 32	5 New St. White Plains	NY
Nuclear Metals, Inc. 1-2	Box 222 Concord	Mass
Nukem, GmbH, 1-2	Wolfgang bei Hanau/Main, Germany	
Rockwell Co., W. S. 1-2	200 Eliot St. Fairfield	Conn
S. E. P. I. 1	4, rue de Londres, Paris 9, France	
Salem-Brosius Inc. 1	Box 2222, Carnegie	Pa
Stewart Engineering Co. 1	487 Bean Creek Rd. Santa Cruz	Cal
STOKES CORP., F. J. 2, Adv Pg 85	5500 Tabor Rd. Philadelphia 20	Pa
Surface Combustion Div. Midland-Ross Corp. 1-2	2375 Dorr St. Toledo 1	Ohio
Ugine-Infra, 1	20 bis, rue La Boetie, Paris 8, France	
Union Steel Corp. 1	1550 Ashwood Terr. Union	NJ
Vacuum Metallurgical Developments, Ltd. 1-2	Shelford, Cambridge, England	
Vacuum Research (Cambridge) Ltd. 1-2	Quayside, Bridge St. Cambridge, Eng	
Vacuum Specialties Co. Inc. 1-2	34 Linden St. Somerville 2	Mass

FURNACES—COMBUSTION

American Gas Furnace Co.	140 Spring St. Elizabeth	NJ
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
Gordon Co., Claud S.	619 W 30 St. Chicago 16	Ill
Hevi-Duty Electric Co. Div. Basic Products Corp.	Box 563, Milwaukee 1	Wis
Ipsen Industries, Inc.	Box 500, Rockford	Ill
Laboratory Equipment Corp.	St. Joseph	Mich
Lindberg Engineering Co.	2450 W Hubbard St. Chicago 12	Ill
Riley Stoker Corp.	9 Neponset St. Worcester 6	Mass
S. E. P. I.	4, rue de Londres, Paris 9, France	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Selas Corp. of America	Dresher	Pa
Surface Combustion Div. Midland-Ross Corp.	2375 Dorr St. Toledo 1	Ohio
Thermal Refractories Corp.	4501 Dell Ave. North Bergen	NJ
Thermal Research & Engineering Corp.	750 Brook Rd. Conshohocken	Pa
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Will Corp.	Box 1050, Rochester 3	NY

FURNACES—CONSTANT-TEMPERATURE

A. E. I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Acme Electric Heating Corp.	99 Reading St. Roxbury 19	Mass
American Gas Furnace Co.	140 Spring St. Elizabeth	NJ
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Gordon Co., Claud S.	619 W 30 St. Chicago 16	Ill
Grieve-Hendry Co. Inc.	1360 N Elston Ave. Chicago 22	Ill
Hevi-Duty Electric Co. Div. Basic Products Corp.	Box 563, Milwaukee 1	Wis
Huppert, Co., K. H.	6830 S Cottage Grove Ave. Chicago 37	Ill
Ipsen Industries, Inc.	Box 500, Rockford	Ill
Labline, Inc.	3070-82 W Grand Ave, Chicago 22	Ill
Lindberg Engineering Co.	2450 W Hubbard St. Chicago 12	Ill
Liquid Metals, Inc.	Box 2666, Westford	Mass
Modern Lab. Equipment Co., Inc.	1811 1st Ave. New York 28	NY
Nukem, GmbH	Wolfgang bei Hanau/Main, Germany	
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
Riley Stoker Corp.	9 Neponset St. Worcester 6	Mass
Rimak Electronics Inc.	10929 Vanowen St. No. Hollywood	Cal
S. E. P. I.	4, rue de Londres, Paris 9, France	
STOKES CORP., F. J. Adv Pg 85	5500 Tabor Rd. Philadelphia 20	Pa
Surface Combustion Div. Midland-Ross Corp.	2375 Dorr St. Toledo 1	Ohio
Thermal Refractories Corp.	4501 Dell Ave. North Bergen	NJ
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Union Steel Corp.	1550 Ashwood Terr. Union	NJ
Will Corp.	Box 1050, Rochester 3	NY

FURNACES—LABORATORY

Acme Electric Heating Corp.	99 Reading St. Roxbury 19	Mass
Aerogen Co. Ltd. Anstey Mill La. Wka.	Alton, Hampshire, England	
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Gas Furnace Co.	140 Spring St. Elizabeth	NJ
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 116, Princeton	NJ
Eisler Engineering Co.	765 S 13th St. Newark 3	NJ
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	Erith, Kent, England	
Gordon Co., Claud S.	619 W 30 St. Chicago 16	Ill
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Hevi-Duty Electric Co. Div. Basic Products Corp.	Box 563, Milwaukee 1	Wis
Huppert, Co., K. H.	6830 S Cottage Grove Ave. Chicago 37	Ill
Ipsen Industries, Inc.	Box 500, Rockford	Ill
Labline, Inc.	3070-82 W Grand Ave, Chicago 22	Ill
Laboratory Equipment Corp.	St. Joseph	Mich
Lectromelt Furnace Div. McGraw-Edison Co.	32nd St. Pittsburgh 30	Pa
Lindberg Engineering Co.	2450 W Hubbard St. Chicago 12	Ill
Litton Engineering Labs.	Box 949, Grass Valley	Cal
Modern Lab. Equipment Co., Inc.	1811 1st Ave. New York 28	NY
Morgan Crucible Co. Ltd.	Battersea Church Rd. London SW11, Eng	
Nukem, GmbH	Wolfgang bei Hanau/Main, Germany	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
Rockwell Co., W. S.	200 Eliot St. Fairfield	Conn
S. E. P. I.	4, rue de Londres, Paris 9, France	
Selas Corp. of America	Dresher	Pa
Statham Instruments, Inc.	12401 W Olympic Blvd. LA 64	Cal
STOKES CORP., F. J. Adv Pg 85	5500 Tabor Rd. Philadelphia 20	Pa
Surface Combustion Div. Midland-Ross Corp.	2375 Dorr St. Toledo 1	Ohio
Thermal Refractories Corp.	4501 Dell Ave. North Bergen	NJ
Thermolyne Corp.	465 Huff St. Dubuque	Iowa
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Ugine-Infra	20 bis, rue La Boetie, Paris 8, France	
Union Steel Corp.	1550 Ashwood Terr. Union	NJ
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St. Cambridge, Eng	
Will Corp.	Box 1050, Rochester 3	NY

FURNACES—MELTING

1. ARC
2. INDUCTION
3. INERT-ATMOSPHERE
4. VACUUM
5. ELECTRON-BEAM

A. E. I. Ltd. 1-2-3-4	33 Grosvenor Pl. London SW1, Eng	
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 2,		
Adv Pg 276AA	Charleroi, Belgium	
Brad Thompson Industries, Inc. 5	7460 Girard Ave. La Jolla	Cal
Brew & Co. Inc., Richard D. 4	90 Airport Rd. Concord	NH
Cayuga Machine & Fabricating Co. Inc. 3-4-5	200 W Gould Ave. Depew	NY
Consolidated Vacuum Corp. 4	1775 Mt. Read Blvd. Rochester	NY
Delapena & Son Ltd. 2	Tewkesbury Rd. Cheltenham, Glouc.	Eng
Edwards High Vacuum Inc. 4	Cumberland Rd. Burlington, Ont Can	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 2-4,		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, 1-2-3-4,		
Adv Pg 276BB	Erith, Kent, England	
Hawker Siddeley Nuclear Power Co Ltd 4	Sutton Ln. Langley, Nr. Slough, Bucks.	Eng
Hevi-Duty Electric Co. Div. Basic Products Corp. 2-3	Box 563, Milwaukee 1	Wis
High Vacuum Equipment Corp. 1-2-4-5	2 Churchill Rd. Hingham	Mass
Kinney Vacuum Div. The N. Y. Air Brake Co. 4	3529 Washington St. Boston 30	Mass
Lectromelt Furnace Div. McGraw-Edison Co. 1-4	32nd St. Pittsburgh 30	Pa
Leybold-Hochvakuum-Anlagen GmbH, 4	Bonner Str. 504, Koln-Bayenthal, Ger	
Leybold's Nachfolger, E. 4	Bonner Str. 504, Koln-Bayenthal, Ger	
Lindberg Engineering Co. 2-3-4	2450 W Hubbard St. Chicago 12	Ill
Liquid Metals, Inc. 3	Box 2666, Westford	Mass
Litton Engineering Labs. 3	Box 949, Grass Valley	Cal
Miles Hivolt Ltd. 4-5	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. 1-2-4-5,		
Adv Pg 136	80 Charlemont St. Newton Highlands 61	Mass
New York Air Brake Co. 4	230 Park Ave. New York 17	NY
Nocalr, Div. Northrop Corp. 1-2	1001 E Broadway, Hawthorne	Cal
NUCLEAR DEVELOPMENT CORP. OF AMERICA, 4,		
Adv Pg 32	5 New St. White Plains	NY
Nuclear Metals, Inc. 1-2-3-4	Box 222 Concord	Mass
Nukem, GmbH, 1-2-3-4-5	Wolfgang bei Hanau/Main, Germany	
Orenda Engines Ltd. 4	Box 4015, Term A, Toronto, Canada	
Plasmadyne Corp. 1	3839 S Main St. Santa Ana	Cal
Reichert, G. Optische Werke A. G. 3-4	Hernalser Hauptstr 219, Vienna 18, Aust	

S. E. P. I. 3-4	4, rue de Londres, Paris 9, France	
Stewart Engineering Co. 1	467 Bean Creek Rd. Santa Cruz	Cal
STOKES CORP., F. J. 2-4, Adv Pg 85	**5500 Tabor Rd. Philadelphia 20**	**Pa**
Surface Combustion Div. Midland-Ross Corp. 3	2375 Dorr St. Toledo 1	Ohio
Temperature Engineering Corp. 4	1200 Union Landing Rd. Riverton	NJ
Ugine-Infra. 2	20 bis, rue La Boetie, Paris 8, France	
Vacuum Metallurgical Developments, Ltd. 4	Shelford, Cambridge, England	
Vacuum Research (Cambridge) Ltd. 4	Quayside, Bridge St. Cambridge, Eng	
Vacuum Specialties Co. Inc. 1-2-3-4	34 Linden St. Somerville 2	Mass
Whiting Corp. 1	157 & Lathrop Sts. Harvey	Ill

FURNACES—MICROCOMBUSTION

Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Hevi-Duty Electric Co. Div. Basic Products Corp.	Box 563, Milwaukee 1	Wis
Lindberg Engineering Co.	2450 W Hubbard St. Chicago 12	Ill
Modern Lab. Equipment Co., Inc.	1811 1st Ave. New York 28	NY
S. E. P. I.	4, rue de Londres, Paris 9, France	
Schueler & Co.	75 Cliff St. New York 38	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Will Corp.	Box 1050, Rochester 3	NY

FURNACES—SINTERING

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
American Gas Furnace Co.	140 Spring St. Elizabeth	NJ
Brew & Co. Inc., Richard D.	90 Airport Rd. Concord	NH
Chempump Div Fostoria Corp.	Dept D-20, Buck & County Line Rd. Huntingdon Valley	Pa
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	**Erith, Kent, England**	
Grieve-Hendry Co. Inc.	1360 N Elston Ave. Chicago 22	Ill
HARPER ELECTRIC FURNACE CORP. Adv Pg 96	**57 River St. Buffalo 2**	**NY**
Hevi-Duty Electric Co. Div. Basic Products Corp.	Box 563, Milwaukee 1	Wis
High Vacuum Equipment Corp.	2 Churchill Rd. Hingham	Mass
Huppert, Co., K. H.	6830 S Cottage Grove Ave. Chicago 37	Ill
Ipsen Industries, Inc.	Box 500, Rockford	Ill
Kinney Vacuum Div. The N. Y. Air Brake Co.	3529 Washington St. Boston 30	Mass
Lindberg Engineering Co.	2450 W Hubbard St. Chicago 12	Ill
Liquid Metals, Inc.	Box 2666, Westford	Mass
Lydon Bros. Inc.	85 Zabriskie St. Hackensack	NJ
Modern Lab. Equipment Co., Inc.	1811 1st Ave. New York 28	NY
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. Adv Pg 136	**80 Cherlemont St. Newton Highlands 61**	**Mass**
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		**Pa**
Nukem, GmbH	Wolfgang bei Hanau/Main, Germany	
Rockwell Co., W. S.	200 Eliot St. Fairfield	Conn
S. E. P. I.	4, rue de Londres, Paris 9, France	
Selas Corp. of America	Dresher	Pa
STOKES CORP., F. J. Adv Pg 85	**5500 Tabor Rd. Philadelphia 20**	**Pa**
Surface Combustion Div. Midland-Ross Corp.	2375 Dorr St. Toledo 1	Ohio
Thermal Refractories Corp.	4501 Dell Ave. North Bergen	NJ
Thermolyne Corp.	465 Huff St. Dubuque	Iowa
Vacuum Metallurgical Developments, Ltd.	Shelford, Cambridge, England	
Vacuum Specialties Co. Inc.	34 Linden St. Somerville 2	Mass

FURNITURE—LABORATORY
See *Also* CONSOLES, CABINETS & PANELS
SINKS—LABORATORY

Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
Brown-Morse Co.	110 E Broadway, Muskegon	Mich
Chempump Div Fostoria Corp.	Dept D-20, Buck & County Line Rd Huntingdon Valley	Pa
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
Duralab Equipment Corp.	989 Linwood St. Brooklyn 8	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
Hamilton Mfg. Co.	Two River	Wis
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
KEWAUNEE MFG. CO. Adv Pg 86	**5083 S Center St. Adrian**	**Mich**
Labline, Inc.	3070-82 W Grand Ave. Chicago 22	Ill
Laboratory Furniture Co. Inc.	Old Country Rd. Mineola	NY
LaPine & Co., Arthur S.	6001 S Knox Ave. Chicago 29	Ill
Lennard Co. Inc., P. M.	1061 E 8th St. Jacksonville 6	Fla
Metalab Equipment Co.	270 Duffy Ave. Hicksville	NY
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Schueler & Co.	75 Cliff St. New York 38	NY
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
Stewart Engineering Co.	467 Bean Creek Rd. Santa Cruz	Cal
Technical Service Corp.	917-19 S Third, Louisville 3	Ky
Will Corp.	Box 1050, Rochester 3	NY
Zirconium Corp. of America	31506-B Solon Rd. Solon 39	Ohio

FUSES

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Bussmann Mfg. Div. McGraw Edison Co.	University at Jefferson, St. Louis 7	Mo
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	**Erith, Kent, England**	
Littelfuse, Inc.	1865 Miner St. Des Plaines	Ill
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa
Wilcox & Co. Ltd., Edward	Sharston Rd. Wythenshawe, Man 22, Eng	

GAGES
See *Also* CONTROLS
INDICATORS
METERS

GAGES—FLOW
See METERS—FLOW

GAGES—HUMIDITY
See *Also* CONTROLS—HUMIDITY

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
Abbeon Supply Co.	179-15 Jamaica Ave. Jamaica 32	NY
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Atkins Technical, Inc.	1276 W 3 St. Cleveland 13	Ohio
Automation Products, Inc.	3030 Max Roy St. Houston 24	Tex
Bendix Corp. Friez Instrument Div.	1454 Taylor Ave. Baltimore 4	Md
BRISTOL CO. Adv Pg 110	**Box 1790 WBG, Waterbury 20**	**Conn**
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Caratom	17 Rd. de la Liberation, St. Denis, Seine	Fr
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
E. M. I. ELECTRONICS LTD. Adv Pg 96	**Hayes, Middlesex, England**	
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Grinnell Co.	260 W Exchange St. Providence 1	RI
Hill & Co., E. Vernon	Box 189, Lake Geneva	Wis
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Lab. Prof. Dr. Berthold	Calmbacher Str. 22 Wildbad Im Schwarzwald, Germany	
Lennard Co. Inc., P. M.	1061 E 8th St. Jacksonville 6	Fla
Lock & Co. Ltd., A. M.	Union St. Oldham, Lanc. England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Will Corp.	Box 1050, Rochester 3	NY

GAGES—IONIZATION
See CHAMBERS—IONIZATION

GAGES—LIQUID-LEVEL
See INDICATORS—LIQUID-LEVEL

GAGES—PIRANI
See GAGES—PRESSURE

GAGES—PRESSURE
See *Also* CONTROLS—PRESSURE

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	

A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Air Reduction Co. Inc.	150 E 42 St. New York 17	NY
Allegany Instrument Co, Inc.	1091 Wills Mountain, Cumberland	Md
Autoclave Engineers, Inc.	2930 W 22 St, Erie	Pa
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
Bailey Meter Co.	29801 Euclid Ave, Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que	Can
Bailey Meters & Controls Ltd.	Purley Way, Croydon, Surrey, England	
Barton Instrument Corp.	580 Monterey Pass Rd. Monterey Park	Cal
Bendix Corp.	1126 Fisher Bldg. Detroit 2	Mich
Bently Scientific Co.	2811 7th St. Berkeley 10	Cal
Bio-Rad Laboratories	1257 5 22nd St. Richmond	Cal
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd. Santa Ana	Cal
BRISTOL CO. Adv Pg 119	Box 1790 HBG, Waterbury 20	Conn
Bryans Aeroquipment Ltd.	Willow Ln. Mitcham, Surrey, England	
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl, London SW1, Eng	
Chesapeake Instrument Corp.	Shadyside	Md
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
Crosby Valve & Gage Co. (Ashton Valve)	4043 Kendrick St. Wrentham	Mass
Daystrom, Inc, Weston Instruments Div.	614 Frelinghuysen Ave, Newark 12	NJ
Dewrance & Co., Ltd.	Great Dover St, London SE1, England	
Eclipse Fuel Engineering Co.	1100 Buchanan, Rockford	Ill
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
General Controls Co.	801 Allen Ave, Glendale 1	Cal
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Glenco Corp.	212 Durham Ave. Metuchen	NJ
Gleesner Co., A. I.	975 Bryant St, San Francisco 3	Cal
Haskell Engineering Co.	1236 S Central Ave, Glendale 4	Cal
Hastings-Raydist, Inc.	Newcomb Ave, Hampton	Va
Hays Corp.	Michigan City 40	Ind
Helicoid Gage Div. Amer. Chain & Cable Co. Inc.	929 Connecticut Ave. Bridgeport 2	Conn
Hill & Co., E. Vernon	Box 189, Lake Geneva	Wis
Honeywell Controls, Ltd.	Vanderhoof Ave, Toronto, Ont Canada	
Hydel, Inc.	223 Crescent St, Waltham 54	Mass
Johnson Service Co.	Milwaukee 1	Wis
Kiffer Tool & Die Inc.	5601 Tillman Ave, Cleveland 2	Ohio
Kinney Vacuum Div. The N. Y. Air Brake Co.	3529 Washington St, Boston 30	Mass
Kunkle Valve Co.	121 S Clinton St, Fort Wayne	Ind
Leybold's Nachfolger, E.	Bonner Str. 504, Koln-Bayenthal, Ger	
Lintronic Ltd.	47 CharingCross Rd, London, WC2, Eng	
Liquid Carbonic Div. Gen. Dynamics Corp.	135 S La Salle St. Chicago 3	Ill
Marsh Instrument Co. Div. Colo Oil & Gas Corp.	3501 Howard St, Skokie	Ill
Meriam Instrument Co.	10920 Madison Ave, Cleveland 2	Ohio
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Maple 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
N. G. N. Electrical Ltd.	Ave. Parade, Accrington, Lanc, England	
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. Adv Pg 136	80 Charlemont St. Newton Highlands 61	Mass
New Electronic Products Ltd.	360 Kennington Rd. London, SE11, Eng	
Photocon Research Products	421 N Altadena Dr, Pasadena	Cal
PHYSICAL SCIENCES CORP. Adv Pg 263	389 N Fair Oaks, Pasadena	Cal
Powers Regulator Co.	3400 Oakton St, Skokie	Ill
Pulsomer Engineering Co. Ltd. Nine Elms Iron Wks.	Reading, England	
Pye & Co., Ltd. W. G.	York St, Cambridge, England	
Republic Flow Meter Co.	2260 Diversey Pkwy, Chicago 47	Ill
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
Robertshaw-Fulton Controls Co. Fulton Sylphon Div.	Box 400, Knoxville 1	Tenn
Schaevitz Engineering	Rt. 130 & Schaevitz Blvd. Pennsauken	NJ
Statham Instruments, Inc.	12401 W Olympic Blvd, LA 64	Cal
STOKES CORP., F. J. Adv Pg 85	5500 Tabor Rd. Philadelphia 20	Pa
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Temperature Engineering Corp.	1200 Union Landing Rd, Riverton	NJ
Thompson, Ltd., John	Wolverhampton, England	
THOMSON-HOUSTON (CIE. FRANCAISE), Adv Pg 276B	173 Blvd. Haussman, Paris 8, France	
Trans-Sonics, Inc.	Burlington	Mass
Trimount Instrument Co.	3119 W Lake St. Chicago 12	Ill
Ultek Corp.	920 Commercial St. Palo Alto	Cal
Ultradyne, Inc.	2622 San Mateo NE, Albuquerque	NM
Vacuum Instrument Corp.	Huntington Station	NY
Wallace & Tiernan, Inc.	25 Main St, Belleville 9	NJ
Weksler Instruments Corp.	195 E Merrick Rd, Freeport	NY
WELCH MFG. CO., W.M. Adv Pg 214	1515 Sedgwick St. Chicago 10	Ill
WESTINGHOUSE ELECTRIC CORP. ELECTRONIC TUBE DIV. Adv. Pgs. 82, 83, 138, 139	Box 284, Elmira	NY

GAGES—STRAIN

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Allegany Instrument Co, Inc.	1091 Wills Mountain, Cumberland	Md
American Instrument Co, Inc.	8030 Georgia Ave, Silver Spring	Md
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	Dept H B, Philadelphia 42	Pa
Baldwin-Lima-Hamilton Corp.	42 4th Ave. Waltham 54	Mass
Bently Scientific Co.	2811 7th St. Berkeley 10	Cal
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd, Santa Ana	Cal
Bruel & Kjaer	Linde Alle 23, Naerum, Den	
Budd Co. Instruments Div.	Box 245, Phoenixville	Pa
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Detroit Controls Div. Amer. Rad. & Stand. San. Corp.	5900 Trumbull, Detroit 8	Mich
Dynisco, Inc.	42 Carleton St, Cambridge 42	Mass
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Glenco Corp.	212 Durham Ave. Metuchen	NJ
Hathaway Instruments, Inc.	5800 E Jewell Ave, Denver 22	Colo
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Kiffer Tool & Die Inc.	5601 Tillman Ave, Cleveland 2	Ohio
Land Air Inc.	7444 W Wilson Ave, Chicago 31	Ill
Lintronic Ltd.	47 CharingCross Rd, London, WC2, Eng	
PHYSICAL SCIENCES CORP. Adv Pg 263	389 N Fair Oaks, Pasadena	Cal
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
Revere Corp. of America	Wallingford	Conn
Solartron Electronic Group Ltd.	Victoria Rd, Farnborough, Hants, Eng	
SOLID STATE RADIATIONS, INC. Adv Pg 44	9925 W Jefferson Blvd. Culver City	Cal
Statham Instruments, Inc.	12401 W Olympic Blvd, LA 64	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Technology Instrument Corp.	531 Main St, Acton	Mass

GAGES—THICKNESS OR DENSITY, NONRADIOACTIVITY

A.E.I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
Acoustica Associates Inc.	5305 W 102 St, Los Angeles 45	Cal
American Instrument Co, Inc.	8030 Georgia Ave, Silver Spring	Md
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Automation Products, Inc.	3030 Max Roy St, Houston 24	Tex
Bausch & Lomb Inc.	85060 Bausch St, Rochester 2	NY
Bently Scientific Co.	2811 7th St, Berkeley 10	Cal
Biddle Co., James G.	1316 Arch St, Philadelphia 7	Pa
BRANSON INSTRUMENTS, INC. Adv Pg 235	37 Brown House Rd. Stamford	Conn
Budd Co. Instruments Div.	Box 245, Phoenixville	Pa
Custom Scientific Instruments Inc.	541 Devon St. Kearny	NJ
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave, Newark 12	NJ
Dice Co., J. W.	Englewood 41	NJ
DYNA EMPIRE, INC. Adv Pg 247	1075 Stewart Ave. Garden City	NY
E. M. I.-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
KAMAN NUCLEAR, Adv Pg 258	Box 3217, No. End Sta. Colorado Springs	Colo
Kiffer Tool & Die Inc.	5601 Tillman Ave, Cleveland 2	Ohio
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Nash & Harrison Ltd.	1355 Wellington St, Ottawa, Canada	
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Ohmart Corp.	2236 Bogen St. Cincinnati 14	Ohio
Philips Electronic Instruments	750 S Fulton Ave, Mt. Vernon	NY
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS. Adv Pg 70	Front & Cooper Sts. Camden 2	NJ
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
Rust Industrial Co. Inc., The	130 Silver St. Manchester	NH
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
Schaevitz Engineering	Rt. 130 & Schaevitz Blvd. Pennsauken	NJ
Sheffield Corp. Sub. Bendix Corp.	721 Springfield St. Dayton 1	Ohio
Special Instruments Lab. Inc.	312 W Vine Ave, Knoxville 02	Tenn
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Unit Process Assemblies	53-15 37th Ave. Woodside 77	NY

GAGES—THICKNESS OR DENSITY, RADIOACTIVITY

AB Scienta	Kvillegatan 98, Box 300, Goeteborg	Swed

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD.		
Adv Pg 240	34-01 30th St. LIC 6	NY
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Atomium Corp.	940 Main St. Waltham	Mass
Baldwin Industrial Controls	Dartford, Kent, England	
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Caratom	17 Bd. de la Liberation, St. Denis, Seine	Fr
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 110, Princeton	NJ
Davy & United Instruments Ltd. Damall Wks.	Sheffield 9, England	
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Ekco Electronics Ltd. Ekco Wks.	Southend-on-Sea, Essex, England	
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Franklin Systems, Inc.	2734 Hillsboro Rd. W Palm Beach	Fla
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276N	Erlangen-Bruck, Germany	
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Industrial Nucleonics Corp.	650 Ackerman Rd. Columbus 2	Ohio
ISOTOPE DEVELOPMENTS LTD.		
Adv Pg 239	Bath Rd. Reading, Berks, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
KAMAN NUCLEAR, Adv Pg 258	Box 3217, No. End Sta. Colorado Springs	Colo
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
Nuclear Aids Corp	612 N Michigan Ave. Chicago 11	Ill
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	2 Richwood Pl. Denville	NJ
Nuclear Research Applications Ltd.	Bell St. Reigate, Surrey, England	
Nuclear Research Corp.	Southampton	Pa
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
Ohmart Corp.	2236 Bogen St. Cincinnati 14	Ohio
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke Westfalen, Germany	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
RADIATION COUNTER LABS. INC.		
Adv Pg 39	5122 W Grove St. Skokie	Ill
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SELO	Via Monfalcone, 12, Milano, Italy	
Schaevitz Engineering	Rt. 130 & Schaevitz Blvd. Pennsauken	NJ
SOLID STATE RADIATIONS, INC.		
Adv Pg 44	9925 W Jefferson Blvd. Culver City	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Uranium Instruments Co.	Box 1191, Grand Junction	Colo
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Western Radiation Lab.	1107 W 24 St. Los Angeles 7	Cal
Westinghouse Electric Corp. X-Ray Div.	2519 Wilkens Ave. Baltimore 3	Md
X-Ray Dept. General Electric Co.	4855 Electric Ave. Milwaukee	Wis

GAGES—VACUUM
See CONTROLS—VACUUM

GALVANOMETERS

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Allegany Instrument Co, Inc.	1091 Wills Mountain, Cumberland	Md
Baldwin Industrial Controls	Dartford, Kent, England	
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Biddle Co., James G.	1316 Arch St. Philadelphia 7	Pa
Cambridge Instrument Co, Inc.	420 Lexington Ave. New York 17	NY
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Central Scientific Co.	1700 Irving Park Rd. Chicago 13	Ill
Century Electronics & Instruments, Inc.	Box 6216, Tulsa 10	Okla
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Epic, Inc.	150 Nassau St. New York 38	NY
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
G-M Laboratories, Inc.	4300 N Knox Ave. Chicago 41	Ill
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Meters, Inc.	Box 1701, Grand Junction	Colo
Hathaway Instruments, Inc.	5800 E Jewell Ave. Denver 22	Colo
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Kin Tel Div. Cohu Electronics, Inc.	5725 Kearny Villa Rd. San Diego 12	Cal
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Meters, Inc.	5353 N Keystone Av. Indnpls 20	Ind
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
New Electronic Products Ltd.	360 Kennington Rd. London, SE11, Eng	
Pace Electrical Instruments Co. Inc.	70-31 84th St. Glendale 27	NY
Photron Instrument Co.	6516 Detroit Ave. Cleveland 2	Ohio
Precision Apparatus Co. Inc.	70-31 84th St. Glendale 27	NY
Pye & Co. Ltd., W. G.	York St. Cambridge, England	
Rust Industrial Co. Inc., The	130 Silver St. Manchester	NH
Shallcross Mfg. Co.	Selma	NC
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
Thompson, Ltd., John	Wolverhampton, England	
WELCH MFG. CO., W.M. Adv Pg 214	1515 Sedgwick St. Chicago 10	Ill
Will Corp.	Box 1050, Rochester 3	NY

GAMMA COUNTERS
See *Under* COUNTERS—RADIATION

GAMMA-RAY SOURCES
See SOURCES—RADIOACTIVE

GAS PURIFIERS

Air Pollution Control Div. John Wood Co.	Essex Bldg. Bernardsville	NJ
American Metal Products Co.	5959 Lindale Ave. Detroit 4	Mich
Anderson Co., V. D., Div. Intl. Basic Economy Corp.	1935 W 96th St. Cleveland 2	Ohio
CAMBRIDGE FILTER CORP.		
Adv. Pgs. 50, 122	726 E Erie Blvd. Syracuse 1	NY
Cleaver-Brooks Special Products Inc.	225 N Grand Ave. Waukesha	Wis
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
DE MARKUS CORP., LOUIS, Adv Pg 214	3000 Main St. Buffalo 14	NY
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
Lennard Co. Inc., P. M.	1061 E 8th St. Jacksonville 6	Fla
Liquid Metals, Inc.	Box 2666, Westford	Mass
PINTSCH BAMAG AG, Adv Pg 276C	Postfach 11, Butzbach, Germany	
Terrisz-Consolidated Industries	22-24 Wooster St. New York 13	NY
United Mfg. Div. W. L. Maxson Corp.	41 Haig St. Hamden 14	Conn

GASES—COUNTER

Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276N	Erlangen-Bruck, Germany	
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	

GASES
1. *ARGON*
2. *CARBON DIOXIDE*
3. *HELIUM*
4. *HYDROGEN*
5. *NITROGEN*
6. *OXYGEN*

Air Liquide, 1-2-3-4-5-6	75 Quai d'Orsay, Paris, France	
Air Reduction Co. Inc. 1-2-3-4-5-6	150 E 42 St. New York 17	NY
Cryogenerators Inc. 4-5	Ashton	RI
DE MARKUS CORP., LOUIS, 2-4-5		
Adv Pg 214	3000 Main St. Buffalo 14	NY
General Electric Co. Lamp Metals & Components Dept. 1-3-4-5-6	21800 Tungsten Rd. Cleveland 17	Ohio
Hofman Laboratories, Inc. 5-6	5 Evans Term. Hillside	NJ
LINDE CO. DIV. UCC, 1-3-4-5-6,		
Adv Pg 222	270 Park Ave. New York 17	NY
Liquid Carbonic Div. Gen. Dynamics Corp. 1-2-3-4-5-6	135 S La Salle St. Chicago 3	Ill

Mackay, Inc., A. D. 1-3	198 Broadway, New York 38	NY
National Cylinder Gas Div, Chemetron Corp. 1-2-3-4-5-6	800 N Michigan Ave. Chicago 11	Ill
Norair, Div. Northrop Corp, 1-3	1001 E Broadway, Hawthorne	Cal
SHOWA DENKO K. K. 2-4-5-6, Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
SPENCER CHEMICAL CO. 2, Adv Pg 88	500 Dwight Bldg. Kansas City 5	Mo
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Water Associates, 1-2-3-4-5-6	45 Franklin St. Framingham	Mass

GASES–LIQUEFIED

Aerogen Co. Ltd, Anstey Mill La, Wka.	Alton, Hampshire, England	
Air Liquide	75 Quai d Orsay, Paris, France	
American Potash & Chem, Corp.	99 Park Ave. New York 16	NY
DE MARKUS CORP., LOUIS, Adv Pg 214	3680 Main St. Buffalo 14	NY
Esso Standard Div. Humble Oil & Ref Co.	15 W 51st St, New York 19	NY
Hofman Laboratories, Inc.	5 Evans Term. Hillside	NJ
LINDE CO. DIV. UCC, Adv Pg 222	270 Park Ave. New York 17	NY
Liquid Carbonic Div. Gen. Dynamics Corp.	135 S La Salle St. Chicago 3	Ill
National Cylinder Gas Div, Chemetron Corp.	800 N Michigan Ave. Chicago 11	Ill
Pennsalt Chemicals Corp.	3 Penn Center, Philadelphia 2	Pa
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
SPENCER CHEMICAL CO. Adv Pg 88	500 Dwight Bldg. Kansas City 5	Mo
Stearns-Roger Mfg. Co	Box 5888, Denver 17	Colo
Superior Air Products Co.	132 Malvern St, Newark 5	NJ
Water Associates	45 Franklin St. Framingham	Mass

GASES–MONITORS, RADIOACTIVITY
See MONITORS–RADIATION

GASKETS
See Also O-RINGS
PACKINGS

Advanced Products Co.	50 Broadway, North Haven	Conn
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
American Felt Co.	Glenville Rd. Glenville	Conn
Armstrong Cork Co.	Lancaster	Pa
Auburn Mfg. Co.	500 Stack St. Middletown	Conn
Bacon Industries, Inc.	192 Pleasant St. Watertown	Mass
Chicago Gasket Co.	1271 W North Ave. Chicago 22	Ill
Connecticut Hard Rubber Co.	New Haven 9	Conn
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Emerson Plastics Corp.	1383 Seabury Ave. Bronx 61	NY
Felt Products Mfg. Co.	7450 N McCormick Blvd. Skokie	Ill
Felters Co., The	210 South St, Boston 11	Mass
Garlock, Inc. Electronic Prods.	600 N 10th St. Camden	NJ
Johns-Manville	22 E 40th St, New York 16	NY
Keasbey & Mattison Co.	Ambler	Pa
Metallic Gasket Co.	16 Bethany St. New Brunswick	NJ
Penn Fibre & Specialty Co.	2020 E Westmoreland St. Philadelphia 34	Pa
Polymer Corp.	2120 Fairmont Ave. Reading	Pa
Roberts Toledo Rubber Co.	4143 Monroe St. Toledo 13	Ohio
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio

GEARS

A. E. L. Ltd.	33 Grosvenor Pl, London SW1, Eng	
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Bowmar Instrument Corp.	8000 Bluffton Rd. Fort Wayne	Ind
Cedar Rapids Engineering Co.	902 17th St, NE, Cedar Rapids	Iowa
Condenser Service & Engrg. Co, Inc.	150 Observer Hwy. Hoboken	NJ
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Farrel-Birmingham Co, Inc.	Ansonia	Conn
Feedback, Ltd.	1 The Broadway, Crowborough, Sussex, Eng	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Graflex, Inc.	3750 Monroe Ave, Rochester 3	NY
Lavezzi Machine Works	4635 W Lake St. Chicago 44	Ill
Link Div. - Gen. Precision, Inc.	Binghamton	NY
P I C Design Corp.	477 Atlantic Ave. E Rockaway	NY
Philadelphia Gear Corp.	King of Prussia	Pa
Pioneer Designs Ltd, Servokits Div.	6 Hampton Ct, Par, E Molesey, Surr, Eng	
Precision Mechanisms Corp.	577 Newbridge Ave. East Meadow	NY
Reeves Instrument Corp.	E Gate Blvd. Garden City	NY
Research Development Manufacture, Inc.	429 E Collom St. Philadelphia 44	Pa
Vactric (Control Equipment) Ltd.	Sloane St. London SW1, England	
Wiseman & Co. Ltd., Alfred	89 Glover St. Birmingham 9, Eng	

GEIGER-MULLER TUBES
1. *SELF-QUENCHING*
2. *THICK-WALL, GLASS*
3. *THICK-WALL, METAL*
4. *THIN-WALL*
5. *THIN-WINDOW*

AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD. 1-4-5, Adv Pg 240	34-01 30th St. LIC 6	NY
AMPEREX ELECTRONIC CORP. 1-2-3-4-5, Adv Pg 145	230 Duffy Ave. Hicksville	NY
ANTON ELECTRONIC LABS. INC. 1-2-3-4-5, Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 1-2-3-4-5, Adv Pg 276AA	Charleroi, Belgium	
Atomasters-Suntaine Corp, 1-2-3-4-5	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. 1-2-3-4-5, Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
BAIRD-ATOMIC, INC. 3, Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bell Telephone Mfg Co, Nuc Energy Dv, 1-2-3-4-5	Berkenrodelei 75, Antwerp, Belgium	
Central Electronic Mfrs. 1-2-3-4-5	2 Richwood Pl. Denville	NJ
E. M. I. ELECTRONICS LTD. 1-2-3-4-5, Adv Pg 96	Hayes, Middlesex, England	
ELECTRONIC ASSOCIATES, LTD. 1-2-3-4-5, Adv Pg 260	4616 Yonge St. Willowdale, Ont. Can.	
FORRO SCIENTIFIC CO. 1-5, Adv Pg 236	833 Lincoln St. Evanston	Ill
FRIESEKE & HOEPFNER GmbH, 1-2-4-5, Adv Pg 276M	Erlangen-Bruck, Germany	
Gelman Instrument Co. 1-2-3-4-5	106 N Main St. Chelsea	Mich
Gilardoni S.p.A. 1-2-3-4-5	Via Statale, Mandello Lario, Como	Italy
HAMNER ELECTRONICS CO. 1-5, Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, 1-2-4-5, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B. 2-3-4-5, Adv Pg 255	Box 413 Mountain Lakes	NJ
JOHNSTON LABS. INC., WILLIAM H. 3-4-5, Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
Kobe Kogyo Corp, 1-2-3-4-5	1-5 Wadayama-Dori, Kobe, Japan	
Labgear Ltd, Nucleonics Div, 1-2-3-4-5	Cromwell Rd, Cambridge, England	
Lab. Prof. Dr. Berthold, 1	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
La Radiotechnique, 1-2-3-4-5	130, Av. Ledru-Rollin-Paris 11, France	
Leighton Labs., H. W. 3	York Rd. & Sunset Ln. Hatboro	Pa
MEILLON, INC., GEORGE T. 1-3-4-5, Adv Pg 252	132 Nassau St. New York 38	NY
Nihon-Musen, K. K. 1-2-3-4-5	990 Kamirenjaku, Mitaka, Tokyo, Jap	
Nuclear Aids Corp. 1-5	612 N Michigan Ave. Chicago 11	Ill
NUCLEAR-CHICAGO CORP. 1-3-3-4-5, Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15, Adv Pg 116	2 Richwood Pl. Denville	NJ
Nuclear Development Lab. 1-3-4-5	Box 7094, Kansas City	Mo
Nuclear Research Applications Ltd, 1-2-3-4-5	Bell St. Reigate, Surrey, England	
NUCLEONIC CORP. OF AMERICA, 1-2-3-4-5, Adv Pg 232	196 Dugrow St. Brooklyn 31	NY
Panax Equipment, Ltd, 1-2-3-4-5	Holmethorpe Ind. Est. Redhill, Surr, Eng	
Peebles & Co Ltd, Bruce, Electronics Div 1-5	E Pilton, Edinburgh 5, Scotland	
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 1-3-4-5, Adv Pg 267	Eindhoven, The Netherlands	
Physique Industrielle S. A. 1-2-3-4-5	66 Bvd. de l'Imperatrice Brussels 1, Belg	
Picker & Harting Vertrieb GMBH, 1-4-5	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. 1-4-5, Adv Pg 109	25 S Broadway, White Plains	NY
Poetschke & Co. oHG 1-2-3-4-5	Box 2766, Frankfurt/Main 1, Germany	
RADIATION COUNTER LABS. INC. 1-2-3-4-5, Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB. 1-5, Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Raytheon Co, Ind, Comps. Div, 1-2-4-5	55 Chapel St. Newton	Mass
Servonuclear Corp, 1-2-3-4-5	28-21 Astoria Blvd, Long Island City	NY
Siemens & Halske AG, 1-2-3-4-5	Rheinbrueckenstr, 50, Karlsruhe, Germany	
Siemens-Reiniger-Werke AG, 1-2-3-4-5	Luipoldstr, 45, Erlangen, Germany	
TECHNICAL ASSOCIATES, 1-2-3-4-5, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TERMINAL RADIO INTERNATIONAL LTD. 1-2-3-4-5, Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. 1-3-5, Adv Pg 276D	12 Yurakucho I-Chome, Chiyoda-ku, Tokyo, Japan	
TRACERLAB INC. 1-2-3-4-5, Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
20th Century Electronics Ltd, 1-2-3-4-5	King Henry's Dr, New Addington, Croydon, Surrey, England	
U. S. RADIUM CORP. 1-2-3-4-5, Adv Pg 90	Box 246, Morristown	NJ
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Western Radiation Lab. 1-4	1107 W 24 St. Los Angeles 7	Cal
Wilmad Glass Co, 2-4	Rt. 40 & Oak Rd, Buena	NJ
WOOD COUNTER LAB., H. 1-2-3-4, Adv Pg 262	1525 E 53rd St. Chicago 15	Ill

Zentralwerkstatt Gottingen GmbH, 1-2-3-4-5	Box 624, Gottingen, W Germany	

GENERATORS—GAS

Aerogen Co. Ltd. Anstey Mill Lane Wks.	Alton, Hampshire, England	
DeMARKUS CORP., LOUIS, Adv Pg 214	3080 Main St. Buffalo 14	NY
Industrial Engineering Co.	O'Fallon	Ill
LINDE CO. DIV. UCC, Adv Pg 222	270 Park Ave. New York 17	NY

GENERATORS—NEUTRON

AMPEREX ELECTRONIC CORP.		
Adv Pg 145	230 Duffy Ave. Hicksville	NY
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
HIGH VOLTAGE ENGINEERING CORP.		
Adv Pg 146	5 Bedford St. Burlington	Mass
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Leybold-Hochvakum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
RADIATION COUNTER LABS. INC.		
Adv Pg 39	5122 W Grove St. Skokie	Ill
SELO	Via Monfalcone, 12, Milano, Italy	
TEXAS NUCLEAR CORP.		
Adv. Pgs. 228, 229	Box 9267, Allendale Sta. Austin 17	Tex
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal

GENERATORS—PULSE

A. E. L. Ltd.	33 Grosvenor Pl. London SW1, Eng	
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd. Santa Ana	Cal
British Physical Labs.	Radlett, Herts, England	
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Crosby-Teletronics Corp.	54 Kinkel St. Westbury	NY
Cubic Corp.	5575 Kearny Villa Rd. San Diego 11	Cal
Dawe Instruments Ltd.	Harlequin Ave. Great West Rd. Brentford, Middx, Eng	
Digital Equipment Corp.	Maynard	Mass
DuMont Labs., Allen B., Dv. Fairchild Cam & Inst Corp.	750 Bloomfield Ave. Clifton	NJ
Dynatron Radio Ltd.	St. Peter's Rd. Furze Platt, Maidenhead, Berks, Eng	
E-H Research Labs. Inc.	163 Adeline St. Oakland 20	Cal
E. M. L.-Consor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. Adv Pg 96	Hayes, Middlesex, England	
EDGERTON, GERMESHAUSEN & GRIER, INC.		
Adv Pg 251	160 Brookline Ave. Boston 15	Mass
Electro-Pulse, Inc.	6711 S Sepulveda Blvd. L A 45	Cal
Electronic Tube Corp.	1200 E Mermaid Ln. Phila. 18	Pa
Elion Instruments Inc.	430 Buckley St. Bristol	Pa
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Fleming Radio (Developments) Ltd.	Caxton Way, Stevenage, Herts, England	
General Radio Co.	West Concord	Mass
HAMMER ELECTRONICS CO.		
Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
HARVEY WELLS ELECTRONICS, INC.		
Adv Pg 6	14 Huron Dr. Natick	Mass
Instrument Corp. of America	1545 Kennewick Rd. Baltimore 18	Md
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
Kay Electric Co.	Maple Ave. Pine Brook	NJ
Laben	Via Amadeo 41, Milano, Italy	
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Lintronic Ltd.	47 CharingCross Rd. London, WC2, Eng	
Litton Industries	336 N Foothill Rd. Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
LUMATRON ELECTRONICS, INC.		
Adv Pg 267	116 County Courthouse Rd. New Hyde Park	NY
Manson Laboratories, Inc.	375 Fairfield Ave. Stamford	Conn
Marshall of Cambridge Electronics Ltd.	The Aerodrome, Cambridge, England	
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Mullard Equipment Ltd.	Torrington Pl. London WC1, England	2992
Nash & Harrison Ltd.	1355 Wellington St. Ottawa, Canada	
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Nuclear Research Applications Ltd.	Bell St. Reigate, Surrey, England	
Panax Equipment, Ltd.	Holmethorpe Ind. Est. Redhill, Surr. Eng	
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Polarad Electronics Corp.	43-20 34th St. Long Island City 1	NY
RADIATION COUNTER LABS. INC.		
Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT CO. Adv Pg 72	Box 733, Silver Spring	Md
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Rank Cintel Ltd.	Worsley Bridge Rd. London, SE 26, Eng	
Rese Engineering, Inc.	731 Arch St. Philadelphia 6	Pa
Rutherford Electronics Co.	8944 Lindblade, Culver City	Cal
SELO	Via Monfalcone, 12, Milano, Italy	
Servonuclear Corp.	28-21 Astoria Blvd. Long Island City	NY
Spencer-Kennedy Labs. Inc.	1320 Soldiers Field Rd. Boston 35	Mass
Tektronix, Inc.	Box 500, Beaverton	Ore
Telonic Engineering Corp.	773 Broadway, Laguna Beach	Cal
Telonic Industries, Inc.	60 N 1st Ave. Beech Grove	Ind
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Valor Instruments, Inc.	13214 Crenshaw Blvd. Gardena	Cal
VICTOREEN INSTRUMENT CO.		
Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
Wang Laboratories	12 Huron Dr. Natick	Mass
Zentralwerkstatt Gottingen GmbH	Box 624, Gottingen, W Germany	

GENERATORS—STEAM
See STEAM GENERATORS—POWER-PLANT

GENERATORS—VAN DE GRAAFF
See ACCELERATORS

GLASS—HIGH-DENSITY
See SHIELDING—RADIATION

GLASSWARE—LABORATORY
See Also GLASS-WORKING APPARATUS

Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Aloe-Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Atkins Technical, Inc.	1276 W 3 St. Cleveland 13	Ohio
Bache & Co., Semon	636 Greenwich St. New York 14	NY
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Corning Glass Works	Corning	NY
DIAMOND POWER SPECIALTY CORP.		
Adv Pg 132	Box 415 Lancaster	Ohio
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
JENAER GLASWERK SCHOTT & GEN.		
Adv Pg 276Z	10 Hattenbornstr. Mainz/Rhein W Ger	
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
LaPine & Co., Arthur S.	6001 S Knox Ave. Chicago 29	Ill
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
Numberg Thermometer Co. Inc.	124 Livingston St. Brooklyn 1	NY
PENBERTHY INSTRUMENT CO.		
Adv Pg 111	4301 6th Ave. S. Seattle 8	Wash
Podbielniak Inc.	341 E Ohio St. Chicago 11	Ill
Research Specialties Co.	200 S Garrard Blvd. Richmond	Cal
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr. Bloomfield	NJ
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
Syncor Products Co.	30 Eastern Ave. Malden 48	Mass
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Wakefield Industries, Inc.	5121 W Grove St. Skokie	Ill
WELCH MFG. CO., W.M. Adv Pg 214	1515 Sedgwick St. Chicago 10	Ill
Will Corp.	Box 1050, Rochester 3	NY
Wilmad Glass Co.	Rt. 40 & Oak Rd. Buena	NJ

GLASS-WORKING APPARATUS

Aerogen Co. Ltd. Anstey Mill Ln. Wks.	Alton, Hampshire, England	
Alfa American Corp.	303 W 42nd St. New York 36	NY
Associated Engrg. & Mfg. Corp.	210 Stonehouse Rd. Glen Ridge	NJ
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
DIAMOND POWER SPECIALTY CORP.		
Adv Pg 132	Box 415 Lancaster	Ohio
Eisler Engineering Co.	765 S 13th St. Newark 3	NJ

Fish-Schurman Corp.	70 Portman Rd. New Rochelle	NY
LaPine & Co., Arthur S.	6001 S Knox Ave, Chicago 29	Ill
Litton Engineering Labs.	Box 949, Grass Valley	Cal
Podbielniak Inc.	341 E Ohio St, Chicago 11	Ill
Rascher & Betzold, Inc.	730 N Franklin St. Chicago 10	Ill
Research Vacuum Supply Co.	6712 N Clark St, Chicago	Ill
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr, Bloomfield	NJ
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
Wakefield Industries, Inc.	5121 W Grove St, Skokie	Ill
Wilmad Glass Co.	Rt. 40 & Oak Rd, Buena	NJ

GLOVE BOXES
See DRY BOXES

GLOVES—DRY BOX

Air-Shields, Inc.	Hatboro	Pa
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Blickman, Inc., S.	7900 Gregory Ave. Weehawken	NJ
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
CHARLESTON RUBBER CO. Adv Pg 73	Bank Industrial Pk. Charleston	SC
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
DUBLIN INDUSTRIES, INC. Adv Pg 258	11824 Dublin Blvd. Hayward	Cal
Duralab Equipment Corp.	989 Linwood St, Brooklyn 8	NY
Erskine-Healy, Inc.	420 St. Paul St. Rochester 5	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
KEWAUNEE MFG. CO. Adv Pg 86	5083 S Center St. Adrian	Mich
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Lennard Co. Inc., P.M.	1061 E 8th St. Jacksonville 6	Fla
Leybold-Hochvakuum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
Pioneer Rubber Co.	Tiffin Rd. Willard	Ohio
Plasticsmith, Inc.	Box 1071, Pittsburg	Cal
RADIATION COUNTER LABS. INC. Adv Pg 39	5122 W Grove St. Skokie	Ill
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Snyder Mfg. Co. Inc.	Box 464, New Philadelphia	Ohio
SURETY RUBBER CO. Adv Pg 14	N High St. Carrollton	Ohio
Terrier Consolidated Industries	22-24 Wooster St. New York 13	NY
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	

GLOW-TRANSFER COUNTING TUBES
See SCALING TUBES—DECADE

GRAPHITE

Acheson Colloids Co.	1635 Washington Ave. Port Huron	Mich
American Metal Products Co.	5959 Lindale Ave. Detroit 4	Mich
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can	
General Astrometals Corp.	320 Yonkers Ave, Yonkers 2	NY
GREAT LAKES CARBON CORP. Adv Pg 31	18 E 48th St. New York	NY
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Minnesota Mining & Mfg. Co.	900 Bush Ave, St Paul 6	Minn
Morgan Crucible Co. Ltd.	Battersea Church Rd, London SW11, Eng	
NATIONAL CARBON CO. DIV. UCC, Adv. Pg. 4th Cover	270 Park Ave. New York 17	NY
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Raytheon Co. Research Div. High Temp Materials Dept.	Waltham 54	Mass
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
Siemens-Plania Chem. Fabrik	Griesheim, Meitingen uber Augsburg, Ger	
Speer Carbon Co.	Theresa St. St. Marys	Pa
Stackpole Carbon Co.	St. Marys	Pa
TRW, Inc.	2 Aerial Way, Syosset	NY
United Carbon Products Co. Inc.	Box 747, Bay City	Mich
U.S. Graphite Co. Div. Wickes Corp.	Holland Ave, Saginaw 5	Mich

HAND & FOOT MONITORS—RADIOACTIVITY
See MONITORS—RADIATION

HANDLING EQUIPMENT
See CRANES
MANIPULATORS
MATERIALS-HANDLING EQUIPMENT
REFUELING EQUIPMENT—REACTOR
TONGS

HARDNESS TESTERS

American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Bernard-Franklin Co. Inc.	4155 E Hedley St, Phila 37	Pa
Bryans Aeroquipment Ltd.	Willow La. Mitcham, Surrey, England	
Budd Co. Instruments Div.	Box 245, Phoenixville	Pa
Epic, Inc.	150 Nassau St. New York 38	NY
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks.	Goldsmith Ave. Portsmouth, Hants, Eng	
Gordon Co., Claud S.	619 W 30 St, Chicago 16	Ill
Hacker & Co. Inc., William J.	Box 646, W Caldwell	NJ
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Pacific Transducer Corp.	11836 SW Pico Blvd. Los Angeles 64	Cal
Sheffield Corp. Sub. Bendix Corp.	721 Springfield St. Dayton 1	Ohio
Torsion Balance Co.	36 Moseheyan St. Clifton	NJ
Unit Process Assemblies	53-15 37th Ave. Woodside 77	NY
Vacuum Specialties Co. Inc.	34 Linden St. Somerville 2	Mass

HEALTH PHYSICS ORGANIZATION & PROCEDURES
See SERVICES: HEALTH PHYSICS ORGANIZATION & PROCEDURES

HEAT EXCHANGERS
1. *GAS-TO-AIR*
2. *GAS-TO-STEAM*
3. *LIQUID-TO-AIR*
4. *LIQUID-TO-LIQUID*
5. *LIQUID-TO-STEAM*
6. *LIQUID-METAL-TO-GAS*
7. *LIQUID-METAL-TO-LIQUID-METAL*
8. *LIQUID-METAL-TO-STEAM*
9. *ORGANIC-TO-STEAM*
10. *ORGANIC-TO-GAS*

Air Pollution Control Div. John Wood Co. 3	Essex Bldg. Bernardsville	NJ
Air & Refrigeration Corp. 3-6	439 Madison Ave. New York 17	NY
ALCO PRODUCTS, INC. 1-2-3-4-5-6-7-8-9-10, Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Alsthom, Nuclear Div. 1-2-3-4-5	38, Ave. Kleber, Paris 16, France	
American Metal Products Co 1-2-3-4-5-6-7-8-9-10	5959 Lindale Ave. Detroit 4	Mich
American-Standard Industrial Div. 2-3-4-5-6-7-8	Detroit 32	Mich
American-Standard Prod. (Can) Ltd. 3-4-5	1201 Dupont St. Toronto 4, Ont Can	
American-Standard Ross Heat Exchanger Div.	Box 2081, Buffalo 5	NY
Armstrong Co., Richard M. 1-2-3-4-5-6-7-8-9-10	Box 566, West Chester	Pa
BABCOCK & WILCOX CO. 1-2-3-4-5-6-7-8-9-10, Adv Pg 1	161 E 42 St. New York 17	NY
Babcock-Wilcox & Goldie-McCulloch Ltd. 2-5	Coronation Blvd. Galt, Ont. Can.	
Babcock & Wilcox Ltd. 1-2-3-4-5-6-7-8-9-10	209 Euston Rd. London NW 1, England	
Bethlehem Steel Corp. 4-5	701 E 3rd St. Bethlehem	Pa
Braun & Co. C F 1-2-3-4-5-6-7-8-9-10	1000 S Fremont Ave. Alhambra	Cal
Cambridge Div. Standard Steel Corp. 1-3-4-9-10	2 Industrial Pk. Lowell	Mass
Cleaver-Brooks Special Products Inc. 4-5	225 N Grand Ave. Waukesha	Wis
Cochran & Co. Annan, Ltd. 1-2-3-4-5	34 Victoria St. London SW1, England	
Combustion Engineering, Inc. 1-2-3-4-5-6-7-8-9-10	200 Madison Ave. New York 16	NY
Condenser Service & Engrg Co. Inc. 1-2-3-4-5-6-7-8-9-10	150 Observer Hwy. Hoboken	NJ
Corning Glass Works, 4	Corning	NY
CRANE CO. 3, Adv. Pgs. 12, 13	4100 S Kedzie Ave. Chicago 32	Ill
Croll-Reynolds Engineering Co. 4-5	1122 Main St. Stamford	Conn
Downington Iron Works, Inc. 1-2-3-4-5-6-7-8-9-10	Wallace Ave. Downington	Pa
Dunham-Bush, Inc. 1-2-5	179 South St. West Hartford 10	Conn
Duriron Co. Inc. 4-5	450 N Findlay St. Dayton 4	Ohio
Eastern Industries, Inc. 1-2-4	100 Skiff St. Hamden	Conn
Ellis & Watts Prods. Inc.	Monroe at Spencer, Cincinnati 36	Ohio
Escher Wyss Ltd. 1-2-3-4-5	Zurich, Switzerland	
Fansteel Metallurgical Corp. 4-5	North Chicago	Ill
FOSTER WHEELER CORP. 1-2-3-4-5-6-7-8-9-10, Adv Pg 7	666 5th Ave. New York 19	NY
Foster Wheeler Ltd. 1-2-3-4-5-9-10	Box 430, St. Catharines, Ontario, Can.	
Fraser & Co. Ltd., W. J. 1-2-3-4-5-9-10	Harold Hill, Romford, Essex, England	
GAAA, 1-2-3-4-5-6-7-8-9-10	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	

Garrett Corp. 1-2-3-4-5-7-8	9851 Sepulveda Blvd. L A 45	Cal
Graham Mfg. Co. Inc. 1-2-3-4-5-6-7-8-9-10	170 Great Neck Rd. Great Neck	NY
GRISCOM-RUSSELL CO. 1-2-3-4-5-6-7-8, Adv Pg 217	**Massillon**	**Ohio**
Heat-X, Inc. 3-4	Brewster	NY
Heatron, Inc. 4-5	Box 54, York	Pa
Hitachi, Ltd. 4-5	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Hofman Laboratories, Inc. 3	5 Evans Terrp. Hillside	NJ
Industrial Filter & Pump Mfg. Co. 4-5	5900 Ogden Ave. Cicero 50	Ill
Interatom, GmbH, 9	Bensberg/Koeln, Postfach, Germany	
KELLEY & CO., O. G. 1-2-3-4-5, Adv Pg 30	**98 Taylor St. Boston 22**	**Mass**
Lasker Boiler & Engineering Corp. 5	3201 S Wolcott Ave. Chicago 8	Ill
Liquid Metals, Inc. 6-7-8	Box 2666, Westford	Mass
Maryland Shipbuilding & Drydock Co. 3-4-5	Box 537, Baltimore 3	Md
NATIONAL CARBON CO. DIV. UCC, 1-2-3-4-5-9-10, Adv. Pg. 4th Cover	**270 Park Ave. New York 17**	**NY**
Nooter Corp. 1-2-3-4-5-6-7-8-9-10	1424 S 3rd St. St. Louis 66	Mo
Northern Research & Engrg. Corp. 1-2-3-4-5-6-7-8-9-10	238 Main St. Cambridge	Mass
PACIFIC COAST ENGINEERING CO. 2-4-5-9-10, Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
Pfaudler Co. Div. Pfaudler Permutit Inc. 1-2-3-4-5-9-10	1000 West Ave. Rochester 3	NY
PHOENIX-RHEINROHR AG, 1-2-3-4-5-9-10, Adv Pg 276K	**August-Thyssen-Str. 1, Dusseldorf, Ger**	
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Rockwell Co., W. S. 1	200 Eliot St. Fairfield	Conn
S. E. P. I. 1-2-3-5-6-7	4, rue de Londres, Paris 9, France	
Smith Corp., A. O., Atomic & Process Equip. Div. 1-2-3-4-5-9-10	3533 N 27 St. Milwaukee 1	Wis
Societe Fives-Penhoet, 1-2-3-4-5-6-7-8-9-10	340 rue Saint-Honore, Paris 1, France	
Solar Aircraft Co. 1	2200 Pacific Hwy. San Diego 12	Cal
Southwestern Engineering Co. 4-5	4800 Santa Fe Ave. Los Angeles 58	Cal
Steels Engrg. Installations Ltd, 1-2-3-4-5-9-10	Sunderland, Durham, England	
Steinmuller GmbH, L. & C. 1-2-3-4-5-6-7-8-9-10	Gummersbach, Rheinland, Germany	
Struthers Wells Corp, 4-5-7	Warren	Pa
Sulzer Bros. 1-2-3-4-5	Winterthur, Switzerland	
Tenney Engineering, Inc. 1-3-4	1090 Springfield Rd. Union	NJ
Thermal Dynamics Corp. 4	Lebanon	NH
Thermal Refractories Corp, 1-6-10	4501 Dell Ave. North Bergen	NJ
Thermal Research & Engineering Corp.	750 Brook Rd. Conshohocken	Pa
Thompson, Ltd., John	Wolverhampton, England	
TOSI, S.p.A., FRANCO, 1-2-3-4-5-6-7-8-9-10, Adv Pg 276T	**Legnano, Milan, Italy**	
Trane Co. 1-2-3-4-5-6-7-8-9-10	LaCrosse	Wis
Tube Reducing Corp. 1-2-3-4-5-6-7-8-10	520 Main Ave. Wallington	NJ
United Aircraft Products, Inc. 1-2-3-4-5-6-7-8-9-10	Box 1035, Dayton 1	Ohio
Vogt Machine Co., Henry, 4	1000 W Ormsby St. Louisville	Ky
Vulcan Mfg. 2-4-5-9-10	Box 22, Cincinnati 15	Ohio
Water Associates, 1-4	45 Franklin St. Framingham	Mass
Westinghouse Elec Corp. Steam Div. 1-2-3-4-5-6-7-8-9-10	Lester	Pa
Westinghouse Elec Corp. Sturtevant Div 3	Boston 36	Mass
Wheeler Mfg. Co. C. H. 3-4-7	1850 Sedgley Ave. Philadelphia 32	Pa
Whitlock Mfg Co 1-2-3-4-5-6-7-8-9-10	97 South St. W Hartford	Conn
Willamette Iron & Steel Co. 1-2-3-4-5-6-7-8-9-10	280 NW Front Ave. Portland	Ore
York Corp. 1-2-3-4-5-6-7-8	Grantley Rd. York	Pa
Young Radiator Co. 1-2-3-4-5	709 S Marquette St. Racine	Wis
Yuba Consolidated Industries, Inc. 4-5	1 Bush St. San Francisco 4	Cal

HEATERS—ELECTRIC

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Acme Electric Heating Corp.	99 Reading St. Roxbury 19	Mass
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
Ambory Corp.	21320 Stephenson Hwy. Hazel Park	Mich
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
American-Standard Ross Heat Exchanger Div.	Box 2081, Buffalo 5	NY
Central Scientific Co.	1700 Irving Park Rd. Chicago 13	Ill
Cole Electric Co.	8439 Stellar Dr. Culver City	Cal
Continental Sensing, Inc.	1950 N Ruby St. Melrose Park	Ill
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Ilg Electric Ventilating Co.	2850 N Pulaski Rd. Chicago 41	Ill
Industrial Engineering & Equipment Co.	24 Hanley Industrial Ct. St Louis (Brentwood) 17	Mo
Modern Lab. Equipment Co., Inc.	1811 1st Ave. New York 28	NY
Rockwell Co., W. S.	200 Eliot St. Fairfield	Conn
Schueler & Co.	75 Cliff St. New York 38	NY
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
Teleweld Inc.	11535 Franklin St. Franklin Park	Ill
Tetra Engineering Co., Ltd.	North End Rd. Wembley, Middx. Eng.	
Thermolyne Corp.	465 Huff St. Dubuque	Iowa
Tuttle & Kift Div. Fasco Corp.	1823 N Monitor Ave. Chicago 39	Ill
Vulcan Electric Co.	88 Holten St. Danvers	Mass
Watlow Electric Mfg. Co.	1376 Ferguson Ave. St. Louis 14	Mo
Whitlock Mfg. Co.	97 South St. W Hartford	Conn
Wiegand Co., Edwin L.	7500 Thomas Blvd. Pittsburgh 8	Pa

HEATERS—FEED-WATER

Air Pollution Control Div. John Wood Co.	Essex Bldg. Bernardsville	NJ
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
American-Standard Industrial Div.	Detroit 32	Mich
Armstrong Co., Richard M.	Box 566, West Chester	Pa
Babcock-Wilcox & Goldie-McCulloch Ltd.	Coronation Blvd. Galt, Ont. Can.	
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Cleaver-Brooks Special Products Inc.	225 N Grand Ave. Waukesha	Wis
Cochrane Corp.	3214 17th St. Philadelphia 32	Pa
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Croll-Reynolds Engineering Co.	1122 Main St. Stamford	Conn
Downington Iron Works, Inc.	Wallace Ave. Downington	Pa
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
FOSTER WHEELER CORP. Adv Pg 7	**666 5th Ave. New York 19**	**NY**
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can.	
Graham Mfg. Co., Inc.	170 Great Neck Rd. Great Neck	NY
GRISCOM-RUSSELL CO. Adv Pg 217	**Massillon**	**Ohio**
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St. Milwaukee 1	Wis
Societe Fives-Penhoet	340 rue Saint-Honore, Paris 1, France	
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
Thermal Research & Engineering Corp.	750 Brook Rd. Conshohocken	Pa
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
Tube Reducing Corp.	520 Main Ave. Wallington	NJ
Vulcan Electric Co.	88 Holten St. Danvers	Mass
Westinghouse Elec Corp. Steam Div.	Lester	Pa
Whitlock Mfg. Co.	97 South St. W Hartford	Conn
Wiegand Co., Edwin L.	7500 Thomas Blvd. Pittsburgh 8	Pa
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

HEATERS—IMMERSION

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Acme Electric Heating Corp.	99 Reading St. Roxbury 19	Mass
Ambory Corp.	21320 Stephenson Hwy. Hazel Park	Mich
Central Scientific Co.	1700 Irving Park Rd. Chicago 13	Ill
Continental Sensing, Inc.	1950 N Ruby St. Melrose Park	Ill
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Eclipse Fuel Engineering Co.	1100 Buchanan, Rockford	Ill
Pansteel Metallurgical Corp.	North Chicago	Ill
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Industrial Engineering & Equipment Co.	24 Hanley Industrial Ct. St. Louis (Brentwood) 17	Mo
Labline, Inc.	3070-82 W Grand Ave. Chicago 22	Ill
Modern Lab. Equipment Co., Inc.	1811 1st Ave. New York 28	NY
NATIONAL CARBON CO. DIV. UCC, Adv. Pg. 4th Cover	**270 Park Ave. New York 17**	**NY**
Powertron Ultrasonics Corp.	E Gate Blvd. Garden City	NY
Southern Corp.	Box 810, Charleston	SC
Tetra Engineering Co., Ltd.	North End Rd. Wembley, Middx. Eng.	
THERMAL AMERICAN FUSED QUARTZ CO. INC. Adv Pg 50	**18-20 Salem St. Dover**	**NJ**
Thermal Research & Engineering Corp.	750 Brook Rd. Conshohocken	Pa
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Tranter Mfg. Inc.	725 E Hazel St. Lansing 9	Mich
Tube Reducing Corp.	520 Main Ave. Wallington	NJ
Vulcan Electric Co.	88 Holten St. Danvers	Mass
Watlow Electric Mfg. Co.	1376 Ferguson Ave. St. Louis 14	Mo
Wiegand Co., Edwin L.	7500 Thomas Blvd. Pittsburgh 8	Pa
Will Corp.	Box 1050, Rochester 3	NY

HEATERS—INDUCTION

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	

A.E.I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
Canadian Westinghouse Co, Ltd.	Box 510, Hamilton, Ontario, Canada	
Cutler-Hammer, Inc.	412 N 12th St, Milwaukee 1	Wis
Delapena & Son Ltd.	Tewkesbury Rd. Cheltenham, Glouc. Eng	
Djeco Div. Djordjevic Engng. Co.	1933 N Damen, Chicago 47	Ill
English Electric Co, Ltd.	Eng, Elec, Hse, Strand, London WC2	Eng
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	
General Electrodynamics Corp.	4630 Forest Ln. Garland	Tex
Noralr, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	

HEATERS—INFRARED

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
Corning Glass Works	Corning	NY
Fisher Scientific Co.	709 Forbes St, Pittsburgh 19	Pa
S. E. P. I.	4, rue de Londres, Paris 9, France	
Schueler & Co.	75 Cliff St. New York 38	NY
Tetra Engineering Co., Ltd.	North End Rd, Wembley, Middx, Eng.	
Thermal Refractories Corp.	4501 Dell Ave, North Bergen	NJ
Thomas Co., Arthur H.	Vine St, at 3rd. Philadelphia 5	Pa
Vulcan Electric Co.	88 Holten St, Danvers	Mass
Wiegand Co., Edwin L.	7500 Thomas Blvd. Pittsburgh 8	Pa

HEATERS—MICRO
See MICROCHEMICAL EQUIPMENT

HEAVY WATER
See WATER—HEAVY

HELIUM
See *Under* GASES

HOODS—EXHAUST
See FUME HOODS

HOSE
See *Also* PIPING & TUBING
1. *METAL, FLEXIBLE*
2. *PLASTIC*
3. *RUBBER*

Aeroquip (Canada), Ltd, 2-3	287 Bridgeland Ave, Toronto 19, Ont. Can.	
Aeroquip Corp. Western Div. 1-3	3015 Winona Ave, Burbank	Cal
Aeroquip-Marman Div. 1-3	11214 W Exposition Blvd, L A 64	Cal
Allied Engineering & Production Corp. 2	2421 Blanding Ave, Alameda	Cal
Allied Plastics Supply Corp. 1-2-3	75 Cliff St. New York 38	NY
Allied Resinous Products, Inc. 2	Whitney Rd, & Clark St, Conneaut	Ohio
Breeze Corps. Inc. 1	700 Liberty Ave. Union	NJ
Bridgeport Brass Co. 1	30 Grand St. Bridgeport 2	Conn
Caird Ltd., Francis, 1	Africa House, Kingsway, London WC 2, Eng	
Conneaut Rubber & Plastic Co. Div. U. S. Stoneware Co. 2	Box 621, Conneaut	Ohio
Engineering Appliances Ltd. 1	3 Buckingham Pl, London SW1, Eng	
Esso Standard Div Humble Oil & Ref Co 2	15 W 51st St, New York 19	NY
Flexaust Co. 1-2-3	100 Park Ave. New York 17	NY
Flexonics Corp. 1	1315 S 3rd Ave. Maywood	Ill
Flight Refueling Ltd. 1	Tarrant Rushton Arfld, Blanford, Dorset	Eng
Goodrich Co., B. F. 2-3	500 S Main St, Akron	Ohio
HARSHAW CHEMICAL CO. 2-3, Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Haskell Engineering Co. 1-2-3	1236 S Central Ave, Glendale 4	Cal
Industrial Filter & Pump Mfg. Co. 1-2-3	5900 Ogden Ave, Cicero 50	Ill
Johnson Corp. 1	809 Wood St, Three Rivers	Mich
Polymer Corp. 2	2120 Fairmont Ave. Reading	Pa
Polypenco Ltd. 2	69-70 Tewin Rd. Welwyn Gdn. City, Herts, England	
Raybestos-Manhattan, Inc. 1-2-3	Arnold & Stiegel Sts. Manheim	Pa
Republic Rubber Div. Lee Rubber & Tire Corp. 3	Youngstown	Ohio
Research Vacuum Supply Co. 2-3	6712 N Clark St. Chicago	Ill
Resistoflex Corp. 2	Woodland Rd. Roseland	NJ
Roberts Toledo Rubber Co. 3	4143 Monroe St. Toledo 13	Ohio
Rollo-Hardy & Co. Ltd. 1-2-3	Paddockhall Rd. Haywards Heath, Sussex,	Eng
Solar Aircraft Co. 1	2200 Pacific Hwy. San Diego 12	Cal
United Flexible Metallic Tubing (Canada) Ltd. 1	Box 149, Richmond Hill, Ont Canada	
U. S. STONEWARE CO. 2, Adv Pg 79	Akron 9	Ohio
Vanton Pump & Equipment Corp. 2-3	Hoy St, & Ramsey Ave, Hillside	NJ
Weatherhead Co. 2	128 W Washington Blvd. Fort Wayne	Ind

HOT LABORATORIES—NUCLEAR
See *Also* SERVICES: HOT LABORATORY

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
AMERAY CORP. Adv Pg 114	Route 46, Keavil	NJ
ATOMATION, INC. DIV. C. W. REED CO. INC. Adv Pg 233	5959 S Hoover, L A 44	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bausch & Lomb Inc.	85060 Bausch St, Rochester 2	NY
Blickman, Inc., S.	7900 Gregory Ave. Weehawken	NJ
Boucher & Co. Ltd.	Pike Mills, Green St. Kidderminster, Worcester, England	
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St, Jacksonville 6	Fla
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Farrel-Birmingham Co. Inc.	Ansonia	Conn
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Gamma Industries, Inc.	Box 2343, Baton Rouge	La
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
Hawker Siddeley Nuclear Power Co, Ltd.	Sutton Ln, Langley, Nr. Slough, Bucks	Eng
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS. Adv Pg 74	Box 90515, Intl. Airpt. Sta. LA 45	Cal
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
Kaiser Engineers	300 Lakeside Dr, Oakland 12	Cal
KELLEY & CO., O. G. Adv Pg 30	98 Taylor St. Boston 22	Mass
Lasker Boiler & Engineering Corp.	3201 S Wolcott Ave. Chicago 8	Ill
Leonard Co, Inc., P. M.	1061 E 8th St, Jacksonville 6	Fla
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	2272 Peachtree Rd. NE, Atlanta 5	Ga
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
Metalab Equipment Co.	270 Duffy Ave. Hicksville	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
Pantatron Ltd.	5A Princes St, Hanover Sq, London W1, Eng	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
RAY-PROOF CORP. Adv Pg 276	843 Canal St. Stamford	Conn
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Vard	2981 E Colorado, Pasadena	Cal

HOUSINGS—METAL
See CONSOLES, CABINETS & PANELS

HUMIDITY CONTROLS
See CONTROLS—HUMIDITY
GAGES—HUMIDITY

HYDRAULIC MECHANISMS
See *Also* CONTROL-ROD DRIVES
MOTORS—HYDRAULIC

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
Aero Supply Mfg. Co, Inc.	Curry	Pa
Aircraft Ground Equipment	160 Blackwarth Rd. Bristol, Eng.	
Airmatic Valve, Inc.	7313 Associate Ave. Cleveland 5	Ohio
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
American Bosch Arma Corp.	220 Fulton Ave. Hempstead	NY
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
Breeze Corps. Inc.	700 Liberty Ave. Union	NJ
Carter Controls, Inc.	2800 Bernice Rd, Lansing	Ill
Cedar Rapids Engineering Co.	902 17th St, NE, Cedar Rapids	Iowa
Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn
Consolidated Engines & Machy Co, Ltd.	5645 Pare St, Mt. Royal, Montreal, Can	
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
Cornelius Co. Aero Div.	550 39 Ave. NE, Minneapolis 21	Minn
Designers for Industry, Inc.	4341 Fulton Pkwy. Cleveland 9	Ohio
Eastern Industries, Inc.	100 Skiff St. Hamden	Conn
Electrific Meters Co, Ltd.	Abbey Rd, Park Royal, NW 10, London	Eng
Evans & Son (Portsmouth) Ltd., J. Marcyn Wks.	Goldsmith Ave. Portsmouth, Hants, Eng	
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Farrel-Birmingham Co. Inc.	Ansonia	Conn
FLIGHT REFUELING INC. Adv Pg 133	Box 1781, Baltimore 3	Md
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave, LIC 1	NY
Hanna Engineering Works	1767 Elston Ave. Chicago 22	Ill
Hathaway Instruments, Inc.	5900 E Jewell Ave, Denver 22	Colo
Industrial Engineering Corp.	525 E Woodbine, Louisville	Ky
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	

Kahn & Company, Inc.	Box 516 Hartford 1	Conn
KEARFOTT DIV. GEN. PRECISION, INC.		
Adv Pg 269	1150 McBride Ave. Little Falls	NJ
Keelavite Hydraulics Ltd.	Allesley, Coventry, Warwickshire, Eng	
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Marvel-Schebler Products Div.		
Borg-Warner Corp.	2195 S Elwin Rd. Decatur	Ill
Mason, Shaver & Rhoades, Inc.	Box 561, Irwin	Pa
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
New York Air Brake Co.	230 Park Ave. New York 17	NY
Oilgear Co.	1560 W Pierce St. Milwaukee	Wis
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Rousseau Controls Ltd.	640 Decourcelle St. Montreal, Que. Can.	
Rucker Co.	4700 San Pablo Ave. Emeryville	Cal
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Short Bros & Harland Ltd.	Queens Island, Belfast, Ireland	
Simmonds Precision Products, Inc.	105 White Plains Rd. Tarrytown	NY
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
Vard	2981 E Colorado, Pasadena	Cal
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Vickers, Inc. Div. Sperry-Rand Corp.		
Marine & Ordnance Dept.	Waterbury 20	Conn
Whittaker Controls Div.		
Telecomputing Corp.	915 N Citrus, LA	Cal

HYDROGEN
See *Under* GASES

HYGROMETERS

Abbeon Supply Co.	179-15 Jamaica Ave. Jamaica 32	NY
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Atkins Technical, Inc.	1276 W 3 St. Cleveland 13	Ohio
Automation Products, Inc.	3030 Max Roy St. Houston 24	Tex
Beckman Instruments, Inc. Scientific &		
Process Instruments Div.	2500 Fullerton Rd. Fullerton	Cal
Bendix Corp. Friez Instrument Div.	1454 Taylor Ave. Baltimore 4	Md
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
Grinnell Co.	260 W Exchange St. Providence 1	RI
H-B Instrument Co.	American & Bristol Sts. Philadelphia 40	Pa
Hill & Co., E. Vernon	Box 189, Lake Geneva	Wis
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Illinois Testing Labs, Inc.	420 N La Salle St. Chicago	Ill
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Lennard Co. Inc., P. M.	1061 E 8th St. Jacksonville 6	Fla
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Nurnberg Thermometer Co. Inc.	124 Livingston St. Brooklyn 1	NY
Powers Regulator Co.	3400 Oakton St. Skokie	Ill
Rascher & Betzold, Inc.	730 N Franklin St. Chicago 10	Ill
Science Associates	104 Nassau St. Princeton	NJ
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Water Associates	45 Franklin St. Framingham	Mass
Will Corp.	Box 1050, Rochester 3	NY

INDICATORS
See *Also* CONTROLS
DETECTORS
GAGES
METERS

INDICATORS—CONTROL-ROD-POSITION
See *Also* CONTROL-ROD DRIVE SYSTEMS

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Aerotec Industries, Inc. Industrial Div.	2 Meadow St. South Norwalk	Conn
Autocon Ind. Inc. Div. Automatic		
Control Co.	995 University Ave. St. Paul 4E	Minn
Barber-Colman Co.		
Wheelco Instruments Div.	1300 Rock St. Rockford	Ill
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bryans Aeroquipment Ltd.	Willow Ln. Mitcham, Surrey, England	
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 110, Princeton	NJ
DIAMOND POWER SPECIALTY CORP.		
Adv Pg 132	Box 415 Lancaster	Ohio
Electric Tachometer Corp.	68 & Upland Sts. Phila 42	Pa
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave. LIC 1	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	Erith, Kent, England	
Graflex, Inc.	3750 Monroe Ave. Rochester 3	NY
Hanna Engineering Works	1767 Elston Ave. Chicago 22	Ill
Integra, Leeds & Northrup Ltd.	Broad St. Birmingham 15, England	
Jordan Controls Inc.	3235 W Hampton Ave. Milwaukee 9	Wis
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Marvel-Schebler Products Div.		
Borg-Warner Corp.	2195 S Elwin Rd. Decatur	Ill
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
PHYSICAL SCIENCES CORP. Adv Pg 263	389 N Fair Oaks, Pasadena	Cal
Scam Instrument Corp.	1811 W Irving Park Rd. Chicago	Ill
Schaevitz Engineering	Rt. 130 & Schaevitz Blvd. Pennsauken	NJ
Stromberg-Carlson Div. Gen. Dynamics		
Corp.	100 Carlson Rd. Rochester	NY
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
TOKYO SHIBAURA ELECTRIC CO., LTD.	12 Yurakucho 1-Chome, Chiyoda-ku,	
Adv Pg 276D	Tokyo, Japan	
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
Vard	2981 E Colorado, Pasadena	Cal
Westinghouse Elec Corp. Pwr Control &		
Comm Dept.	East Pittsburgh	Pa

INDICATORS—FLOW
See METERS—FLOW

INDICATORS—LIQUID-LEVEL
See *Also* CONTROLS—LIQUID-LEVEL

AB Scienta	Kvillegatan 9B, Box 366, Goeteborg	Swed
AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	Crown House, Aldwych, London WC	Eng
Acoustica Associates Inc.	5305 W 102 St. Los Angeles 45	Cal
Aerotec Industries, Inc. Industrial Div.	2 Meadow St. South Norwalk	Conn
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Atomium Corp.	940 Main St. Waltham	Mass
Autocon Ind. Inc. Div. Automatic		
Control Co.	995 University Ave. St. Paul 4E	Minn
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Automation Products, Inc.	3030 Max Roy St. Houston 24	Tex
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
B-I-F Industries, Inc.	530-D Harris Ave. Providence 1	RI
B/W Controller Corp.	2200 E Maple Rd. Birmingham	Mich
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que Can	
Barber-Colman Co.		
Wheelco Instruments Div.	1300 Rock St. Rockford	Ill
Barton Instrument Corp.	580 Monterey Pass Rd. Monterey Park	Cal
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
BRISTOL CO. Adv Pg 110	Box 1790 NBG, Waterbury 20	Conn
Brooks Instrument Co. Inc.	407 W Vine St. Hatfield	Pa
Burndept Ltd.	West St. Erith, Kent, Eng	
Consolidated Engines & Machy Co. Ltd.	5645 Pare St. Mt. Royal, Montreal, Can	
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
Coper-Vulcan Div. Blaw-Knox Co.	939 W 26 St. Erie 4	Pa
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Detroit Controls Div. Amer. Rad. &		
Stand. San. Corp.	5900 Trumbull, Detroit 8	Mich
Dewrance & Co., Ltd.	Great Dover St. London SE1, England	
DIAMOND POWER SPECIALTY CORP.		
Adv Pg 132	Box 415 Lancaster	Ohio
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
ELECTRONIC ASSOCIATES, LTD.		
Adv Pg 268	4614 Yonge St. Willowdale, Ont. Can.	
Fielden Electronics Ltd.	Paston Rd. Wythenshawe, Man 22, Eng	
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave. LIC 1	NY
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
General Controls Co.	801 Allen Ave. Glendale 1	Cal
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Hanna Engineering Works	1767 Elston Ave. Chicago 22	Ill

Hastings-Raydist, Inc.	Newcomb Ave, Hampton	Va
Hays Corp.	Michigan City 40	Ind
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Helicoid Gage Div. Amer. Chain & Cable Co. Inc.	929 Connecticut Ave. Bridgeport 2	Conn
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave, Cicero 50	Ill
Industrial Nucleonics Corp.	650 Ackerman Rd, Columbus 2	Ohio
Instruments, Inc.	Box 556, Tulsa	Okla
International Instruments, Inc.	Box 2954, New Haven 15	Conn
ISOTOPE DEVELOPMENTS LTD.		
Adv Pg 239	**Bath Rd. Reading, Berks, England**	
Jerguson Gage & Valve Co.	Adams St, Burlington	Mass
Jordan Controls Inc.	3235 W Hampton Ave, Milwaukee 9	Wis
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Liquid Metals, Inc.	Box 2666, Westford	Mass
Lock & Co. Ltd., A. M.	Union St. Oldham, Lanc. England	
Magnetic Instruments Co. Inc.	637 Commerce St. Thornwood	NY
Meriam Instrument Co.	10920 Madison Ave, Cleveland 2	Ohio
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
Newman Industries Ltd.	Yate, Bristol, England	
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	**2 Richwood Pl. Denville**	**NJ**
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	**5 New St. White Plains**	**NY**
Nuclear Research Corp.	Southampton	Pa
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	**Box 10901, Pittsburgh 36**	**Pa**
Ohmart Corp.	2236 Bogen St. Cincinnati 14	Ohio
Powell Co., Wm., The	2525 Spring Grove Ave. Cincinnati 22	Ohio
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Robertshaw-Fulton Controls Co., Aero & Inst Div.	Santa Ana Fwy/at Euclid, Anaheim	Cal
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SELO	Via Monfalcone, 12, Milano, Italy	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Scam Instrument Corp.	1811 W Irving Park Rd. Chicago	Ill
Siemens & Halske AG	Rheinbrueckenstr, 50, Karlsruhe, Germany	
Simmonds Precision Products, Inc.	105 White Plains Rd. Tarrytown	NY
Simplex Valve & Meter Co.	7 E Orange St. Lancaster	Pa
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Swartwout Div.-Crane Co.	Hooksett Ind. Park, Manchester	NH
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
Trimount Instrument Co.	3119 W Lake St, Chicago 12	Ill
Ultradyne, Inc.	2622 San Mateo NE, Albuquerque	NM
ULTRASONIC INDUSTRIES, INC.		
Adv Pg 59	**141 Albertson Ave. Albertson**	**NY**
Victory Engineering Corp.	Box 373, Union	NJ
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Wallace & Tiernan, Inc.	25 Main St, Belleville 9	NJ
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal
Yarnall-Waring Co.	102 E Mermaid Ln. Phila 18	Pa

INDICATORS—PLUGGING

AEG, Adv Pg 276E	**Hochhous, Frankfurt/Main, Germany**	
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Liquid Metals, Inc.	Box 2666, Westford	Mass
MSA Research Corp.	Callery	Pa
Scam Instrument Corp.	1811 W Irving Park Rd. Chicago	Ill

INDICATORS—PRESSURE
See GAGES—PRESSURE

INDICATORS—RADIATION
See COUNTERS—RADIATION

INDICATORS—TIMING
See Also CONTROLS—TIMING

AEG, Adv Pg 276E	**Hochhous, Frankfurt/Main, Germany**	
Abrams Instrument Corp.	600 E Shiawassee St. Lansing	Mich
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Cramer Controls Corp.	Centerbrook	Conn
Engineered Electronics Co.	1441 E Chestnut Ave. Santa Ana	Cal
Erie Resistor Corp.	644 W 12th St. Erie	Pa
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Graflex, Inc.	3750 Monroe Ave, Rochester 3	NY
J-B-T Instruments, Inc.	133 Hamilton St, New Haven 8	Conn
Labgear Ltd. Nucleonics Div.	Cromwell Rd, Cambridge, England	
Meriam Instrument Co.	10920 Madison Ave, Cleveland 2	Ohio
Neuman Laboratories, Ernst	Williams Bay	Wis
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	**5 New St. White Plains**	**NY**
Robinson & Co. Ltd., D.	717 London Rd. Hounslow, Middlsx. Eng	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Waltham Precision Instrument Co.	221 Crescent St. Waltham 54	Mass

INDICATORS—VALVE-POSITION

AEG, Adv Pg 276E	**Hochhous, Frankfurt/Main, Germany**	
A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Aerotec Industries, Inc. Industrial Div.	2 Meadow St. South Norwalk	Conn
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
B-I-F Industries, Inc.	530-D Harris Ave. Providence 1	RI
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que Can	
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St. Rockford	Ill
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Clayton Engineering Co.	Orchard St, Crawley, Sussex, England	
Consolidated Controls Corp.	14 Durant Ave., Bethel	Conn
Copes-Vulcan Div. Blaw-Knox Co.	939 W 26 St. Erie 4	Pa
Electric Tachometer Corp.	68 & Upland Sts. Phila 42	Pa
Fairbanks Co., The	393 Lafayette St. New York 3	NY
Fairchild Camera & Instr. Corp. Defense Prods Div.	300 Robbins Ln. Syosset	NY
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave, LIC 1	NY
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
General Controls Co.	801 Allen Ave. Glendale 1	Cal
Graflex, Inc.	3750 Monroe Ave, Rochester 3	NY
Hanna Engineering Works	1767 Elston Ave, Chicago 22	Ill
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave, Cicero 50	Ill
Johnson Service Co.	Milwaukee 1	Wis
Jordan Controls Inc.	3235 W Hampton Ave, Milwaukee 9	Wis
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	**5 New St. White Plains**	**NY**
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
PHYSICAL SCIENCES CORP. Adv Pg 263	**389 N Fair Oaks, Pasadena**	**Cal**
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Rockwell Mfg. Co.	400 N Lexington Ave. Pittsburgh 8	Pa
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Scam Instrument Corp.	1811 W Irving Park Rd. Chicago	Ill
Siemens & Halske AG	Rheinbrueckenstr, 50, Karlsruhe, Germany	
Simplex Valve & Meter Co.	7 E Orange St. Lancaster	Pa
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St. Cambridge, Eng	
Westinghouse Elec Corp. Pwr Control & Comm Dept.	East Pittsburgh	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

INDICATOR TUBES
See DIGITAL INDICATING DEVICES

INDUCTANCES

AEG, Adv Pg 276E	**Hochhous, Frankfurt/Main, Germany**	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
AMP Inc. Capitron Div.	155 Park St. Elizabethtown	Pa
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Central Transformer Co.	900 W Jackson Blvd. Chicago 7	Ill
Freed Transformer Co., Inc.	1718 Weirfield St. Brooklyn 27	NY
General Radio Co.	West Concord	Mass

Litton Industries	336 N Foothill Rd, Beverly Hills	Cal
Magnetrac, Inc.	248 Schuyler Ave, Kearny	NJ
Muirhead Instruments Inc.	441 Lexington Ave, New York 17	NY
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
North Hills Electronics, Inc.	Alexander Pl, Glen Cove	NY
Perforated Products, Inc.	181 Harvard St, Brookline 46	Mass
Raypar, Inc.	7800 W Addison St, Chicago 34	Ill
Raytheon Co, Commer Appar. & Sys Div.	1415 Boston-Prov. Tnpk, Norwood	Mass
Sangamo Electric Co.	11 & Converse Sts, Springfield	Ill
Scott (Electronic Engrg.) Ltd., James	68 Brockville St, Glasgow E2, Scotland	
Sickles Div. Gen. Instrument Corp.	165 Front St, Chicopee	Mass
Technology Instrument Corp.	531 Main St, Acton	Mass
Torwico Electronics, Inc.	1080 Morris Ave, Union	NJ
United Transformer Corp.	150 Varick St, New York	NY
Valor Instruments, Inc.	13214 Crenshaw Blvd, Gardena	Cal
Vari-L Co. Inc.	207 Greenwich Ave, Stamford	Conn
Wayne Kerr Corp.	Box 801, Philadelphia 5	Pa
Zenith Electric Co. Ltd.	Villiers Rd, London, NW2, England	

IN-PILE TEST DESIGN

See SERVICES: IN-PILE TEST DESIGN

INSPECTION EQUIPMENT

See EDDY-CURRENT EQUIPMENT
FLUOROSCOPES—X-RAY
METALLOGRAPHIC EQUIPMENT
RADIOGRAPHIC EQUIPMENT
ULTRASONIC EQUIPMENT

INSTRUMENT PARTS—PRECISION

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Ansco Div. Gen. Anil. & Film Corp.	175 Clinton St, Binghamton	NY
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
Bowmar Instrument Corp.	8000 Bluffton Rd, Fort Wayne	Ind
Cedar Rapids Engineering Co.	902 17th St, NE, Cedar Rapids	Iowa
Daystron, Inc., Weston Instruments Div.	614 Frelinghuysen Ave, Newark 12	NJ
Devco Engineering Inc. Control Systems Div.	Pier Lane W, Caldwell	NJ
Eberline Instrument Corp.	Box 279, Santa Fe	NM
Electro-Scientific Industries	7524 SW Macadam Ave, Portland	Ore
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd, Detroit 32	Mich
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave, LIC 1	NY
General Meters, Inc.	Box 1791, Grand Junction	Colo
Graflex, Inc.	3750 Monroe Ave, Rochester 3	NY
J-B-T Instruments, Inc.	133 Hamilton St, New Haven 8	Conn
Jerpbak-Bayless Co.	34150 Solon Rd, Solon	Ohio
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	1150 McBride Ave, Little Falls	NJ
Keuffel & Esser Co.	300 Adams St, Hoboken	NJ
Land Air Inc.	7444 W Wilson Ave, Chicago 31	Ill
Lavezzi Machine Works	4635 W Lake St, Chicago 44	Ill
LENOX INSTRUMENT CO. Adv Pg 54	2010 Chancellor St, Philadelphia 3	Pa
Link Div. - Gen. Precision, Inc.	Binghamton	NY
Litton Industries	336 N Foothill Rd, Beverly Hills	Cal
Mason, Shaver & Rhoades, Inc.	Box 551, Irwin	Pa
Metal Bellows Corp.	605 Mica Lane Wellesley	Mass
Minr-Honeywell Reg Co, Boston Div.	40 Life St, Boston 35	Mass
Minr-Honeywell Reg Co, Con Dev Div.	2753 4th Ave, S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves, Phila. 44	Pa
Muirhead Instruments Inc.	441 Lexington Ave, New York 17	NY
NUCLEAR-OHIO, INC. Adv Pg 54	27105 Knickerbocker Rd, Cleveland 40	Ohio
Nuclear Science Associates	55 Manor Dr, Newark 6	NJ
Oster Mfg. Co., John, Avionic Div.	1 Main St, Racine	Wis
P I C Design Corp.	477 Atlantic Ave, E Rockaway	NY
Pioneer Designs Ltd, Servokits Div.	6 Hampton Ct, Par, E Molesey, Surr, Eng	
Precision Mechanisms Corp.	577 Newbridge Ave, East Meadow	NY
Pye & Co. Ltd., W. G.	York St, Cambridge, England	
Reeves Instrument Corp.	E Gate Blvd, Garden City	NY
Research Development Manufacture, Inc.	429 E Collom St, Philadelphia 44	Pa
Sheffield Corp, Sub. Bendix Corp	721 Springfield St, Dayton 1	Ohio
Speer Resistor Div, Speer Carbon Co.	Bradford	Pa
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Taylor, Taylor & Hobson Div, Rank Prec. Ind. Ltd.	Stoughton St, Leicester, England	
Technology Instrument Corp.	531 Main St, Acton	Mass
Trio Machine Works, Inc.	3045 N 3rd St, Philadelphia 33	Pa
United Control Systems, Inc.	918 Woodley Rd, Dayton 3	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Wallace & Tiernan, Inc.	25 Main St, Belleville 9	NJ
Waltham Precision Instrument Co.	221 Crescent St, Waltham 54	Mass

INSTRUMENT SYSTEMS—REACTOR

See REACTOR INSTRUMENT SYSTEMS

INSULATION—THERMAL

Air & Refrigeration Corp.	439 Madison Ave, New York 17	NY
Aircraft Porous Media, Inc.	Glen Cove	NY
Auburn Mfg. Co.	500 Stack St, Middletown	Conn
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St, New York 17	NY
Cambridge Div. Standard Steel Corp.	2 Industrial Pk, Lowell	Mass
Columbian-General Blacks, Ltd.	Four Ashes, Wolverhampton, England	
Dow Chemical Co.	Midland	Mich
Eagle-Picher Co.	American Bldg, Cincinnati	Ohio
Emerson & Cuming, Inc.	59 Walpole St, Canton	Mass
Fibrous Glass Products, Inc. Sub. PALL Corp.	Alpa Plaza, Hicksville	NY
Gordon Co., Claud S.	619 W 30 St, Chicago 16	Ill
Ipsen Industries, Inc.	Box 500, Rockford	Ill
Johns-Manville	22 E 40th St, New York 16	NY
Keasbey & Mattison Co.	Ambler	Pa
Kitson's Insulations Ltd.	London Rd, Barking, Essex, England	
Louthan Mfg. Div. of Ferro Corp.	East Liverpool	Ohio
Mica Insulator Div. MMM	797 Broadway, Schenectady 1	NY
National Beryllia Corp.	4501 Dell Ave, North Bergen	NJ
Norton Co.	1 New Bond St, Worcester 6	Mass
Saxonburg Ceramics, Inc.	Saxonburg	Pa
Solar Aircraft Co.	2200 Pacific Hwy, San Diego 12	Cal
Star Porcelain Co.	21 Muirhead Ave, Trenton	NJ
Thompson Fiber Glass Co., H. I.	1733 Cordova St, Los Angeles 7	Cal

INSULATORS & INSULATION—ELECTRICAL

A. E. I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
Allied Engineering & Production Corp.	2421 Blanding Ave, Alameda	Cal
Allied Plastics Supply Corp.	75 Cliff St, New York 38	NY
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
Aluminum Co. of America	1501 Alcoa Bldg, Pittsburgh 19	Pa
Asheville-Schoonmaker Mica Co.	900 Jefferson Ave, Newport News	Va
Auburn Mfg. Co.	500 Stack St, Middletown	Conn
Bacon Industries, Inc.	192 Pleasant St, Watertown	Mass
Continental-Diamond Fibre Corp.	Newark	Del
Coon Porcelain Co.	690 9th St, Golden	Colo
Devcon Corp.	Endicott St, Danvers	Mass
Dow Corning Corp.	Midland	Mich
Electro-Ceramics, Inc.	2645 S 2 W, Salt Lake City 15	Utah
Emerson & Cuming, Inc.	59 Walpole St, Canton	Mass
Emerson Plastics Corp.	1383 Seabury Ave, Bronx 61	NY
Engelhard Industries, Inc.	113 Astor St, Newark 2	NJ
Esso Standard Div. Humble Oil & Ref Co.	15 W 51st St, New York 19	NY
General Electric Co, Laminated Prods Dept.	Coshocton	Ohio
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	
Gordon Co., Claud S.	619 W 30 St, Chicago 16	Ill
Indiana General Corp.	405 Elm St, Valparaiso	Ind
Job-O-Steinbeck	Reinbek, Bz. Hmb, Germany	
Johns-Manville	22 E 40th St, New York 16	NY
Keasbey & Mattison Co.	Ambler	Pa
Kendall Co, Polyken Sales Div.	309 W Jackson Blvd, Chicago 6	Ill
Lapp Insulator Co. Inc.	159 Sumner St, LeRoy	NY
Louthan Mfg. Div. of Ferro Corp.	East Liverpool	Ohio
MAGNETIC SHIELD DIV. PERFECTION MICA CO. Adv Pg 254	1322 N Elston Ave, Chicago 22	Ill
Markel & Sons, L. Frank	School House Ln, Norristown	Pa
Mica Insulator Div, MMM	797 Broadway, Schenectady 1	NY
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
National Beryllia Corp.	4501 Dell Ave, North Bergen	NJ
National Vulcanized Fibre Co.	Maryland Ave & Beech Sts, Wilmington 99	Del
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Penn Fibre & Specialty Co.	2020 E Westmoreland St, Philadelphia 34	Pa
PERMALI, INC. Adv Pg 59	Box 716, Mt. Pleasant	Pa
PHYSICAL SCIENCES CORP. Adv Pg 263	389 N Fair Oaks, Pasadena	Cal
Polymer Corp.	2120 Fairmont Ave, Reading	Pa
Polypenco Ltd.	68-70 Tewin Rd, Welwyn Gdn. City, Herts, England	
Porcelain Products, Co.	225 N Patterson St, Carey	Ohio
Radiation Applications, Inc.	36-40 37th St, Long Island City 1	NY
Raychem Corp.	Oakside at Northside, Redwood City	Cal
Readel Corp.	Box 217 Rio Grande	NJ
Saxonburg Ceramics, Inc.	Saxonburg	Pa
Silicones Div. UCC	270 Park Ave, New York 17	NY
Star Porcelain Co.	21 Muirhead Ave, Trenton	NJ
Suflex, Ltd.	54-58 Uxbridge Rd, London W5, England	
Syncor Products Co.	30 Eastern Ave, Malden 48	Mass
Synthane Corp.	River Rd, Oaks	Pa
TELEFLEX INC. Adv Pg 118	Church Rd, North Wales	Pa
Thompson Fiber Glass Co., H. I.	1733 Cordova St, Los Angeles 7	Cal
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
U. S. STONEWARE CO. Adv Pg 79	Akron 9	Ohio
Zophar Mills, Inc.	112-130 26 St, Brooklyn 32	NY

INSURANCE
See SERVICES: INSURANCE

INTERCOMS
See COMMUNICATION SYSTEMS

ION-EXCHANGE EQUIPMENT
See Also DEMINERALIZERS
RESINS—ION-EXCHANGE
WATER CONDITIONERS

American Agile Corp.	Box 168, Bedford	Ohio
Belco Ind Equip Div Bogue Elec Mfg Corp.	100 Pennsylvania Ave. Paterson	NJ
Bio-Rad Laboratories	1267 S 32nd St, Richmond	Cal
Chemical Separations Corp.	Box 1031, Oak Ridge	Tenn
Chem-Pure Service Co.	762 Industrial Rd. San Carlos	Cal
Cochrane Corp.	3214 17th St. Philadelphia 32	Pa
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
ELGIN SOFTENER CORP. Adv Pg 263	179 N Grove Ave. Elgin	Ill
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
ILLINOIS WATER TREATMENT CO. Adv Pg 240	840 Cedar St. Rockford	Ill
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Infilco, Inc.	Box 5033, Tucson	Ariz
Ionics Inc.	152 6th St. Cambridge 42	Mass
Permutit Co. Div. Pfaudler Permutit Inc.	50 W 44th St. New York 36	NY
PINTSCH BAMAG AG, Adv Pg 276C	Postfach 11, Butzbach, Germany	
PITTSBURGH PIPING & EQUIPMENT CO. Adv Pg 246	158 49th St. Pittsburgh	Pa
Plessey Nucleonics Ltd.	Weeden Rd. Northampton, England	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Schleicher & Schuell Co., Carl	Keene 5	NH
Steinmuller GmbH, L. & C.	Gummersbach, Rheinland, Germany	
Thompson, Ltd., John	Wolverhampton, England	

ION-GAGE TUBES
See CONTROLS—VACUUM

IONIZATION CHAMBERS
See CHAMBERS—IONIZATION

IRRADIATED PLASTICS
See PLASTICS—IRRADIATED

IRRADIATION—ACCELERATOR
See SERVICES: IRRADIATION-ACCELERATOR

IRRADIATION—ISOTOPIC
See SERVICES: IRRADIATION-ISOTOPIC

IRRADIATION—REACTOR
See SERVICES: IRRADIATION-REACTOR

IRRADIATORS—MEDICAL, ISOTOPIC
See Also ACCELERATORS

A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Barnes Co., W. F. & John	301 S Water St. Rockford	Ill
Bleiwerk Goslar GmbH	Goslar, Germany	
Brown Ind. Ltd., David	Hampson St, Manchester, England	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
CURTISS-WRIGHT CORP. PRINCETON DIV. Adv Pg 211	Box 110, Princeton	NJ
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
HIGH VOLTAGE ENGINEERING CORP. Adv Pg 146	5 Bedford St. Burlington	Mass
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Hunslet Precision Engrg. Ltd.	Leeds, 10, England	
International Shielding Industries	Foot of West St, Wilmington	Del
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Knapp Mills Inc.	23-15 Borden Ave, LIC	NY
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Mullard Equipment Ltd.	Torrington Pl, London WC1, England	3619
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Danville	NJ
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
PACIFIC COAST ENGINEERING CO. Adv Pg 32	PO Drawer E, Alameda	Cal
Pantatron Ltd.	5A Princes St, Hanover Sq, London W1, Eng	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs, Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
Radiation Applications, Inc.	36-40 37th St, Long Island City 1	NY
Radiation Products, Inc.	Pt. 40 Rd, Flushing 52	NY
Radionics Inc.	Lafayette & Water Sts, Norristown	Pa
RAY-PROOF CORP. Adv Pg 276	843 Canal St. Stamford	Conn
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
VICTOREEN INSTRUMENT CO. Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	

IRRADIATORS—PROCESS, ISOTOPIC
See Also ACCELERATORS
SOURCES—RADIOACTIVE

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
BAR-RAY PRODUCTS, INC. Adv Pg 242	209 25th St. Brooklyn 32	NY
Bleiwerk Goslar GmbH	Goslar, Germany	
Brown Ind. Ltd., David	Hampson St, Manchester, England	
Budd Co. Instruments Div.	Box 245, Phoenixville	Pa
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
CURTISS-WRIGHT CORP. PRINCETON DIV. Adv Pg 211	Box 110, Princeton	NJ
Farrel-Birmingham Co, Inc.	Ansonia	Conn
HIGH VOLTAGE ENGINEERING CORP. Adv Pg 146	5 Bedford St. Burlington	Mass
International Shielding Industries	Foot of West St, Wilmington	Del
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Knapp Mills Inc.	23-15 Borden Ave, LIC	NY
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
Nuclear Engineering Ltd.	Langley Nr, Slough, Bucks, England	
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan Italy	
PACIFIC COAST ENGINEERING CO. Adv Pg 32	PO Drawer E, Alameda	Cal
Pantatron Ltd.	5A Princes St, Hanover Sq, London W1, Eng	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs, Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
Plessey Nucleonics Ltd.	Weedon Rd, Northampton, England	
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
Radiation Products, Inc.	Pt. 40 Rd, Flushing 52	NY
Radionics Inc.	Lafayette & Water Sts, Norristown	Pa
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
VICTOREEN INSTRUMENT CO. Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	

ISOTOPE CONTAINERS
See SHIELDING—RADIATION

ISOTOPE-LABELED COMPOUNDS

Abbott Laboratories	Box 1008, Oak Ridge	Tenn
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminto Ave. Panorama City	Cal
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Bios Laboratories, Inc.	17 W 60th St. New York 23	NY
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
ISOMET CORP. Adv Pg 126	433 Commercial Ave. Palisades Park	NJ
Isoserve Inc.	131 Portland St. Cambridge 39	Mass
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
Merck & Co Ltd Research Chemicals Dept	560 De Courcelle St. Montreal 3, P.Q. Can	
New England Nuclear Corp.	575 Albany St. Boston	Mass
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
NUCLEAR SCIENCE & ENGINEERING CORP. Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs, Lubbecke, Westfalen, Germany	
RADIOCHEMICAL CENTRE, THE, Adv Pg 224	White Lion Rd. Amersham, Buckinghamshire, England	
Research Specialties Co.	200 S Garrard Blvd. Richmond	Cal
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
Texas Research Foundation	Renner	Tex
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Volk Radiochemical Co.	5412 N Clark St. Chicago 40	Ill

ISOTOPES—RADIOACTIVE

See *Also* BATTERIES—NUCLEAR
SOURCES—RADIOACTIVE

Abbott Laboratories	Box 1008, Oak Ridge	Tenn
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminto Ave. Panorama City	Cal
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Bielwerk Goslar GmbH	Goslar, Germany	
Brown Ind. Ltd., David	Hampeon St. Manchester, England	
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Budd Co. Instruments Div.	Box 245, Phoenixville	Pa
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Fleischman, Burd & Co. Inc.	1271 Ave. of Americas, New York 20	NY
Gamma Industries, Inc	Box 2543, Baton Rouge	La
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Instruments, Inc.	Box 556, Tulsa	Okla
International Shielding Industries	Foot of West St. Wilmington	Del
Isoserve Inc.	131 Portland St. Cambridge 39	Mass
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
Merck & Co Ltd Research Chemicals Dept	560 De Courcelle St. Montreal 3, P.Q. Can	
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
Adv Pg 116	2 Richwood Pl. Denville	NJ
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
NUCLEAR SCIENCE & ENGINEERING CORP. Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	Eindhoven, The Netherlands	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs, Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
RADIOCHEMICAL CENTRE, THE, Adv Pg 224	White Lion Rd. Amersham, Buckinghamshire, England	
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
Technical Operations, Inc.	South Ave. Burlington	Mass
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Texas Research Foundation	Renner	Tex
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
U. S. RADIUM CORP. Adv Pg 90	Box 246, Morristown	NJ
U.S. Radium Corp. (Europe)	36 Ave. Krieg, Geneva, Switzerland	
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Volk Radiochemical Co.	5412 N Clark St. Chicago 40	Ill
Western Radiation Lab.	1107 W 24 St. Los Angeles 7	Cal
WESTINGHOUSE TESTING REACTOR, Adv. Pgs. 138, 139, 141	Box 1075, Pittsburgh 30	Pa

ISOTOPES—STABLE

Air Liquide	75 Quai d'Orsay, Paris, France	
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminto Ave. Panorama City	Cal
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Bios Laboratories, Inc.	17 W 60th St. New York 23	NY
Budd Co. Instruments Div.	Box 245, Phoenixville	Pa
ISOMET CORP. Adv Pg 126	433 Commercial Ave. Palisades Park	NJ
Isoserve Inc.	131 Portland St. Cambridge 39	Mass
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Merck & Co Ltd Research Chemicals Dept	560 De Courcelle St. Montreal 3, P.Q. Can	
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
Quartz & Silice	8 rue d'Anjou, Paris, France	
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
Volk Radiochemical Co.	5412 N Clark St. Chicago 40	Ill

ISOTOPES—STANDARDS, RADIOACTIVE

See SOURCES—RADIOACTIVE

LABORATORY APPARATUS

See *Also* BALANCES—ANALYTICAL
BATHS—CONSTANT-TEMPERATURE
BURETTES—AUTOMATIC
CENTRIFUGES
CHROMATOGRAPHIC APPARATUS
COLORIMETERS
CRYOGENIC APPARATUS
DENSITOMETERS
DESSICATORS
DRY BOXES
FUME HOODS
FURNACES—LABORATORY
FURNITURE—LABORATORY
GLASSWARE—LABORATORY
HOT LABORATORIES—NUCLEAR
LOW-TEMPERATURE APPARATUS
METALLOGRAPHIC APPARATUS
MICROCHEMICAL EQUIPMENT
OPTICAL INSTRUMENTS & PARTS

PHOTOMETERS
PIPETTES
STILLS—LABORATORY

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
Acme Electric Heating Corp.	99 Reading St. Roxbury 19	Mass
Aerogen Co. Ltd. Anstey Mill La. Wks.	Alton, Hampshire, England	
Ainsworth & Sons, Inc., Wm.	2151 Lawrence St. Denver 5	Colo
Air Pollution Control Div. John Wood Co.	Essex Bldg. Bernardsville	NJ
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
ALLIED RESEARCH ASSOCIATES, INC.		
Adv Pg 107	**43 Leon St. Boston 15**	**Mass**
American Agile Corp.	Box 168, Bedford	Ohio
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Autoclave Engineers, Inc.	2930 W 22 St. Erie	Pa
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
BARNSTEAD STILL & STERILIZER CO.		
Adv Pg 44	**84 Lanesville Terr. Boston 31**	**Mass**
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Brown Laboratory, Hood Div.	2263 Broadway, Grand Junction	Colo
Bryans Aeroquipment Ltd.	Willow Ln. Mitcham, Surrey, England	
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Buehler, Ltd.	2120 Greenwood St. Evanston	Ill
Central Scientific Co.	1700 Irving Park Rd. Chicago 13	Ill
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Coors Porcelain Co.	690 9th St. Golden	Colo
Custom Scientific Instruments Inc.	541 Devon St. Kearny	NJ
Djeco Div. Djordjevic Engng. Co.	1933 N Damen, Chicago 47	Ill
E. M. L.-Consor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
Electro-Scientific Industries	7524 SW Macadam Ave. Portland	Ore
Electronic Instruments Ltd.	Lower Mortlake Rd. Richmond, Surrey	Eng
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Filtronics Inc.	Box 200, Cowell	Cal
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
Gaertner Scientific Corp.	1237 Wrightwood Ave. Chicago	Ill
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
Hacker & Co. Inc., William J.	Box 646, W Caldwell	NJ
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Hevi-Duty Electric Co. Div. Basic Products Corp.	Box 563, Milwaukee 1	Wis
Hill & Co., E. Vernon	Box 189, Lake Geneva	Wis
Hofman Laboratories, Inc.	5 Evans Term. Hillside	NJ
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
INSTRUMENTATION ASSOCIATES,		
Adv Pg 14	**17 W 60 St. New York 23**	**NY**
JOHNSON & ASSOC. INC., WILLIAM B.,		
Adv Pg 255	**Box 415 Mountain Lakes**	**NJ**
Keuffel & Esser Co.	300 Adams St. Hoboken	NJ
Labline, Inc.	3070-82 W Grand Ave. Chicago 22	Ill
Laboratory Equipment Corp.	St. Joseph	Mich
LaPine & Co., Arthur S.	6001 S Knox Ave. Chicago 29	Ill
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Lintronic Ltd.	47 CharingCross Rd. London, WC2, Eng	
LUMATRON ELECTRONICS, INC.		
Adv Pg 267	**116 County Courthouse Rd. New Hyde Park**	**NY**
MEILLON, INC., GEORGE T. Adv Pg 252	**132 Nassau St. New York 38**	**NY**
Mico Instrument Co.	80 Trowbridge St. Cambridge 38	Mass
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
National Spectrographic Lab. Inc.	6300 Euclid Ave. Cleveland 3	Ohio
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Norton Co.	1 New Bond St. Worcester 6	Mass
NUCLEAR-OHIO, INC. Adv Pg 54	**27105 Knickerbocker Rd. Cleveland 40**	**Ohio**
Nurnberg Thermometer Co. Inc.	124 Livingston St. Brooklyn 1	NY
Picker & Harling Vertrieb GMBH	Espelkamp-Mittwald Kn. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
S. A. L. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Schueler & Co.	75 Cliff St. New York 38	NY
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr. Bloomfield	NJ
Shamban & Co., W. S.	11617 W Jefferson Blvd. Culver City	Cal
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
STOKES CORP., F. J. Adv Pg 85	**5500 Tabor Rd. Philadelphia 20**	**Pa**
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Sturtevant Mill Co.	103 Clayton St. Boston 22	Mass
Superior Electric Co., The	83 Laurel St. Bristol	Conn
Syncor Products Co.	30 Eastern Ave. Malden 48	Mass
Tektronix, Inc.	Box 500, Beaverton	Ore
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
Terriss-Consolidated Industries	22-24 Wooster St. New York 13	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
Texas Instruments Incorporated, Geosciences & Instrumentation Div.	3609 Buffalo Speedway, Houston 6	Tex
Thermal Dynamics Corp.	Lebanon	NH
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd. Waltham 54**	**Mass**
Tri-R Instruments	144-13 Jamaica Ave. Jamaica 35	NY
United Carbon Products Co. Inc.	Box 747, Bay City	Mich
U. S. STONEWARE CO. Adv Pg 79	**Akron 9**	**Ohio**
U. S. Testing Co. Inc.	1415 Park Ave. Hoboken	NJ
Water Associates	45 Franklin St. Framingham	Mass
WELCH MFG. CO., W.M. Adv Pg 214	**1515 Sedgwick St. Chicago 10**	**Ill**
Westinghouse Elec Corp. Instrument Dept	Newark	NJ
Will Corp.	Box 1050, Rochester 3	NY

LABELED COMPOUNDS
See ISOTOPE-LABELED COMPOUNDS

LAUNDRY EQUIPMENT—CONTAMINATED CLOTHING

AMERAY CORP. Adv Pg 114	**Route 46, Kenvil**	**NJ**
American Laundry Machinery Co.	Ross & Section Aves. Cincinnati 12	Ohio
Nuclear Laundry Service Inc.	Box 4165, Waterbury 14	Conn
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
TECHNICAL ASSOCIATES, Adv Pg 41	**140 W Providencia Ave. Burbank**	**Cal**

LAUNDRY SERVICES—CONTAMINATED CLOTHING
See SERVICES: LAUNDRY, CONTAMINATED

LEAD
See METALS, ALLOYS & COMPOUNDS
SHIELDING—RADIATION

LEAK TESTERS
See DETECTORS—LEAK

LEAK TESTING
See SERVICES: LEAK TESTING

LIGHT SOURCES—RADIOACTIVE

BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Canadian Radium & Uranium Corp.	630 5th Ave. New York 20	NY
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
General Electric Co Miniature Lamp Dept	Nela Park, Cleveland 12	Ohio
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
New England Nuclear Corp.	575 Albany St. Boston	Mass
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
Patterson Moos Research Div. Lessona Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
Prazisionsmessgerate RSV	13b Hechendorf/Pilsensee, Germany	
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
RADIUM CHEMICAL CO. INC. Adv Pg 14	**161 E 42nd St. New York 17**	**NY**
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd. Waltham 54**	**Mass**
U. S. NUCLEAR CORP. Adv Pg 262	**801 N Lake St. Box 208, Burbank**	**Cal**
U. S. RADIUM CORP. Adv Pg 90	**Box 246, Morristown**	**NJ**
U.S. Radium Corp. (Europe)	36 Ave. Krieg, Geneva, Switzerland	

LIGHTING EQUIPMENT—UNDERWATER & HOT CELL

Consolidated Engines & Machy Co. Ltd.	5645 Pare St. Mt. Royal, Montreal, Can	
Crouse-Hinds Co. of Canada Ltd.	1160 Birchmount Rd. Scarborough, Toronto, Ontario, Canada	
LENOX INSTRUMENT CO. Adv Pg 54	**2010 Chancellor St. Philadelphia 3**	**Pa**
Research Equipment Co.	502 Sunnyside, Wheaton	Ill
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa

LIQUEFIERS—GAS
See CRYOGENIC APPARATUS

LIQUID-LEVEL CONTROLS
See CONTROLS—LIQUID-LEVEL
INDICATORS—LIQUID-LEVEL

LIQUID METALS
See Specific Metal Under METALS, ALLOYS & COMPOUNDS

LOOPS—TEST, IN-PILE
See Also SERVICES: IN-PILE TEST DESIGN

AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	**Box 77, San Ramon**	**Cal**
Air Liquide	75 Quai d'Orsay, Paris, France	
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St. New York 17**	**NY**
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Boucher & Co. Ltd.	Pike Mills, Green St, Kidderminster, Worcester, England	
Canadian GE Co. Ltd.	107 Park St, Peterborough, Ont Can	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	**Box 748, Fort Worth**	**Tex**
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	**Box 608, San Diego 12**	**Cal**
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks.	Eng
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
KELLEY & CO., O. G. Adv Pg 30	**98 Taylor St. Boston 22**	**Mass**
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
MIDWEST PIPING CO. INC. Adv Pg 71	**1450 S 2nd St. St. Louis 4**	**Mo**
NATIONAL ANNEALING BOX CO.		
Adv Pg 268	**Washington**	**Pa**
National Forge Co.	10 Front St. Irvine, Warren County	Pa
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	**5 New St. White Plains**	**NY**
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	**Box 10901, Pittsburgh 36**	**Pa**
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
PITTSBURGH PIPING & EQUIPMENT CO.		
Adv Pg 246	**158 49th St. Pittsburgh**	**Pa**
Radiation Products, Inc.	Pt. 40 Rd, Flushing 52	NY
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
TRG, Inc.	2 Aerial Way, Syosset	NY
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
WESTINGHOUSE TESTING REACTOR,		
Adv. Pgs. 138, 139, 141	**Box 1075, Pittsburgh 30**	**Pa**

LOOPS—TEST, OUT-OF-PILE

AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	**Box 77, San Ramon**	**Cal**
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St. New York 17**	**NY**
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Boucher & Co. Ltd.	Pike Mills, Green St, Kidderminster, Worcester, England	
BYRON JACKSON PUMPS, INC.		
Adv. Pgs. 24, 25	**2300 E Vernon Ave. LA 54**	**Cal**
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	**Box 608, San Diego 12**	**Cal**
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks.	Eng
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Interatom, GmbH.	Bensberg/Koeln, Postfach, Germany	
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
KELLEY & CO., O. G. Adv Pg 30	**98 Taylor St. Boston 22**	**Mass**
Liquid Metals, Inc.	Box 2666, Westford	Mass
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
MIDWEST PIPING CO. INC. Adv Pg 71	**1450 S 2nd St. St. Louis 4**	**Mo**
NATIONAL ANNEALING BOX CO.		
Adv Pg 268	**Washington**	**Pa**
National Forge Co.	10 Front St. Irvine, Warren County	Pa
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	**5 New St. White Plains**	**NY**
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	**Box 10901, Pittsburgh 36**	**Pa**
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
PITTSBURGH PIPING & EQUIPMENT CO.		
Adv Pg 246	**158 49th St. Pittsburgh**	**Pa**
Radiation Products, Inc.	Pt. 40 Rd, Flushing 52	NY
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Willamette Iron & Steel Co.	280 NW Front Ave, Portland	Ore

LOW-TEMPERATURE APPARATUS
See CRYOGENIC APPARATUS

LUBRICANTS

Acheson Colloids Co.	1635 Washington Ave. Port Huron	Mich
Alpha Molykote Corp.	65 Harvard Ave. Stamford	Conn
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
Dow Corning Corp.	Midland	Mich
Esso Standard Div. Humble Oil & Ref Co.	15 W 51st St. New York 19	NY
Felt Products Mfg. Co.	7450 N McCormick Blvd. Skokie	Ill
Gleasner Co., A. J.	975 Bryant St. San Francisco 3	Cal
Humble Oil & Ref Co. Humble Div.	Box 2180, Houston 1	Tex
Huron Industries	Box 104, Port Huron	Mich
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
Mobil Oil Co.	150 E 42nd St. New York	NY
Monsanto Chemical Co. Plastics Div.	600 Monsanto Ave. Springfield 2	Mass
Research Vacuum Supply Co.	6712 N Clark St. Chicago	Ill
Rockwell Mfg. Co.	400 N Lexington Ave. Pittsburgh 8	Pa
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Shell Oil Co. Lubricants Div.	50 W 50th St. New York	NY
Silicones Div. UCC	270 Park Ave. New York 17	NY
TELEFLEX INC. Adv Pg 118	**Church Rd. North Wales**	**Pa**
Texas Research Foundation	Renner	Tex
Union Carbide Chemicals Co. Div. UCC	270 Park Ave. New York 17	NY
Walsco Electronics Mfg. Co. Div. Textron, Inc.	400 S Wyman St. Rockford	Ill

LUBRICANTS—RADIATION-RESISTANT

Acheson Colloids Co.	1635 Washington Ave. Port Huron	Mich
Alpha Molykote Corp.	65 Harvard Ave. Stamford	Conn
Esso Standard Div. Humble Oil & Ref Co.	15 W 51st St. New York 19	NY
Humble Oil & Ref Co. Humble Div.	Box 2180, Houston 1	Tex
Huron Industries	Box 104, Port Huron	Mich
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
Mobil Oil Co.	150 E 42nd St. New York	NY
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Shell Oil Co. Lubricants Div.	50 W 50th St. New York	NY
TELEFLEX INC. Adv Pg 118	**Church Rd. North Wales**	**Pa**

MACHINE TOOLS
See FABRICATING EQUIPMENT

MACHINE TOOLS—REMOTELY CONTROLLED
See Under FABRICATING EQUIPMENT

MACHINES—FABRICATION
See Under FABRICATING EQUIPMENT

MAGNETIC MATERIALS

Antara Chemicals, Div. Gen Anil. & Film Corp.	435 Hudson St. New York 14	NY
Arnold Engineering Co.	Box G, Marengo	Ill
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa

Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Driver Co., Wilbur B.	1875 McCarter Hwy. Newark 4	NJ
General Electric Co. Metallurgical Prods Dept.	11139 E 8 Mile Blvd. Detroit 32	Mich
Indiana General Corp.	405 Elm St. Valparaiso	Ind
Kulite Tungsten Co.	1040 Hoyt Ave. Ridgefield	NJ
Laboratory for Electronics, Inc.	1079 Commonwealth Ave. Boston	Mass
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
National Moldite Co. Inc.	250 South St. Newark 5	NJ
Permag Corp.	88-06 Van Wyck Expwy. Jamaica 18	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Stackpole Carbon Co.	St. Marys	Pa
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Steward Mfg. Co., D. M.	E 36 St, Chattanooga 1	Tenn
Telemeter Magnetics Inc.	Box 329, Culver City	Cal
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Universal Cyclops Steel Corp.	Bridgeville	Pa
Westinghouse Elec Corp. Materials Mfg.	Blairsville	Pa

MAGNETIC-TAPE RECORDERS
See RECORDERS—MAGNETIC-TAPE

MAGNETS

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Allevard-Ugine	15 rue du Rocher, Paris 8, France	
Arnold Engineering Co.	Box G, Marengo	Ill
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
British Electrical Repairs Ltd	10 Charlotte St, Manchester 1, Eng	
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Cutler-Hammer, Inc.	412 N 12th St, Milwaukee 1	Wis
English Steel Corp. Ltd. River Don Wks.	Sheffield 9, Yorkshire, England	
General Electric Co. Metallurgical Prods Dept.	11139 E 8 Mile Blvd. Detroit 32	Mich
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
Indiana General Corp.	405 Elm St. Valparaiso	Ind
Koontz-Wagner Electric Co.	N Michigan & Merion, South Bend	Ind
Laboratory for Science	5431 College Ave, Oakland 18	Cal
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
National Moldite Co. Inc.	250 South St. Newark 5	NJ
Newport Instruments (Scientific & Mobile) Ltd.	Crawley Rd. Newport Pagnell, Bucks, Eng	
Permag Corp.	88-06 Van Wyck Expwy. Jamaica 18	NY
Process & Instruments	15 Stone Ave. Brooklyn 30	NY
Stackpole Carbon Co.	St. Marys	Pa
Steward Mfg. Co., D. M.	E 36 St, Chattanooga 1	Tenn
Sundstrand Corp.	2531 11th St, Rockford	Ill
TELEFLEX INC. Adv Pg 118	Church Rd. North Wales	Pa
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Varian Associates	611 Hansen Way, Palo Alto	Cal
Westinghouse Elec Corp. Materials Mfg.	Blairsville	Pa

MANIPULATORS—REMOTE

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
Atomasters-Buntaine Corp.	111 W Jewel Ave, St. Louis 22	Mo
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Barnes Co., W. F. & John	301 S Water St. Rockford	Ill
Buchler & Co.	Frankfurter Str, 294 Braunschweig, Ger	
Carter & Viner	Cooden Sea Rd. Bexhill, Sussex, Eng	
Cayuga Machine & Fabricating Co. Inc.	200 W Gould Ave. Depew	NY
CENTRAL RESEARCH LABS. INC. Adv. Pgs. 68, 69	Red Wing	Minn
Consolidated Controls Corp.	14 Durant Ave, Bethel	Conn
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
DIAMOND POWER SPECIALTY CORP. Adv Pg 132	Box 415 Lancaster	Ohio
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks.	Goldsmith Ave. Portsmouth, Hants, Eng	
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
GENERAL MILLS, INC. NUCLEAR EQPT. DEPT. MECH. DIV Adv. Pgs. 16, 17	419 N 5th St. Minneapolis 1	Minn
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS. Adv Pg 74	Box 90515, Intl. Airpt. Sta. LA 45	Cal
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
KEWAUNEE MFG. CO. Adv Pg 86	5083 S Center St. Adrian	Mich
Leybold-Hochvakuum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
Nuclear Research Applications Ltd.	Bell St, Reigate, Surrey, England	
Nuclear Science Associates	55 Manor Dr. Newark 6	NJ
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
Oster Mfg. Co., John, Avionic Div.	1 Main St, Racine	Wis
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
TELEFLEX INC. Adv Pg 118	Church Rd. North Wales	Pa
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
Vogel & Cie, P.	Veyrier pres Geneve, Switzerland	
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

MANIPULATORS—REMOTE, HEAVY-DUTY

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	Dept H B, Philadelphia 42	Pa
Barnes Co., W. F. & John	301 S Water St. Rockford	Ill
Carter & Viner	Cooden Sea Rd. Bexhill, Sussex, Eng	
Cayuga Machine & Fabricating Co. Inc.	200 W Gould Ave. Depew	NY
CENTRAL RESEARCH LABS. INC. Adv. Pgs. 68, 69	Red Wing	Minn
DIAMOND POWER SPECIALTY CORP. Adv Pg 132	Box 415 Lancaster	Ohio
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks.	Goldsmith Ave. Portsmouth, Hants, Eng	
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Farrel-Birmingham Co. Inc.	Ansonia	Conn
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	
GENERAL MILLS, INC. NUCLEAR EQPT. DEPT. MECH. DIV. Adv. Pgs. 16, 17	419 N 5th St. Minneapolis 1	Minn
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS. Adv Pg 74	Box 90515, Intl. Airpt. Sta. LA 45	Cal
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
L. & F. MACHINE CO. Adv Pg 238	2110 Belgrove Ave. Huntington Park	Cal
Leybold-Hochvakuum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
LINCOLN FOUNDRY CORP. Adv Pg 238	2525 E 49 St. Los Angeles	Cal
Nuclear Research Applications Ltd.	Bell St, Reigate, Surrey, England	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. Adv. Pgs. 76, 77	Beach St. Beverly	Mass
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal

MANOMETERS
See GAGES—PRESSURE

MANUFACTURERS REPRESENTATIVES

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EDWARDS, A. BRUCE, Adv Pg 260	6 Penn Center, Philadelphia 3	Pa
PACKARD INSTRUMENT CO. INC. Adv Pg 227,	Box 428, La Grange	Ill

MASKS—PROTECTIVE

Acme Protection Equipment Co.	1299E Kalamazoo St. South Haven	Mich
Air Liquide	75 Quai d'Orsay, Paris, France	
American Optical Co. Safety Prods. Div.	28 Mechanic St. Southbridge	Mass
Bullard Co., E. D.	2680 Bridgeway, Sausalito	Cal
Cuxson, Gerrard & Co. Ltd.	Oldbury, Birmingham, England	
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
Martindale Electric Co.	Box 617, Edgewater Br. Cleveland 7	Ohio

Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
Mine Safety Appliances Co.	201 N Braddock Ave. Pittsburgh 8	Pa
National Cylinder Gas Div. Chemetron Corp.	800 N Michigan Ave. Chicago 11	Ill
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
Nuclear Decontamination Corp.	Apollo	Pa
Nuclear Engineering Co. Inc.	65 Ray St. Box 218, Pleasanton	Cal
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
Ray-O-Vac Co Div Elec Storage Battery Co	Madison	Wis
Snyder Mfg. Co. Inc.	Box 464, New Philadelphia	Ohio
Standard Safety Equipment Co.	431 N Quentin Rd. Palatine	Ill
Will-Corp.	Box 1050, Rochester 3	NY

MATERIALS-HANDLING EQUIPMENT

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Aircraft Ground Equipment	160 Blackwarth Rd. Bristol, Eng.	
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
BALDWIN-LIMA-HAMILTON CORP.		
Adv Pg 103	Dept H B, Philadelphia 42	Pa
Barnes Co., W. F. & John	301 S Water St. Rockford	Ill
Barnes & Reinecke, Inc.	230 E Ohio St. Chicago 11	Ill
Boucher & Co. Ltd.	Pike Mills, Green St. Kidderminster, Worcester, England	
British Electrical Repairs Ltd.	10 Charlotte St. Manchester 1, Eng	
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
CPC Engineering Corp.	Sturbridge	Mass
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
DIAMOND POWER SPECIALTY CORP.		
Adv Pg 132	Box 415 Lancaster	Ohio
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks.	Goldsmith Ave. Portsmouth, Hants, Eng	
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Factory Service Co.	4615 N 21 St. Milwaukee 9	Wis
Fairbanks Co., The	393 Lafayette St. New York 3	NY
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	Erith, Kent, England	
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
Giesener Co., A. J.	975 Bryant St. San Francisco 3	Cal
Harty Co. Inc., R. V.	1433 Sloman Ave. Detroit 11	Mich
Heppenstall Co.	Pittsburgh	Pa
Indiana General Corp.	405 Elm St. Valparaiso	Ind
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
Leybold-Hochvakum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
Liquid Metals, Inc.	Box 2666, Westford	Mass
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Metalab Equipment Co.	270 Duffy Ave. Hicksville	NY
Miller & Son, Inc., Franklin P.	36 Meadow St. E Orange 36	NJ
Niagara Screens & Plant Ltd.	Strayfield Rd. Clayhill, Enfield, Middlsx, England	
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	PO Drawer E, Alameda	Cal
Presray Corp.	Pawling	NY
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Pulverizing Machinery Co. Div. American-Marietta Co.	Chatham Rd. Summit	NJ
Radiation Hazard Control Co.	Port Atkinson	Wis
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
Ryerson & Son, Inc., Jos. T.	16 & Rockwell Sts. Chicago 8	Ill
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Short Bros & Harland Ltd.	Queens Island, Belfast, Ireland	
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
Thompson, Ltd., John	Wolverhampton, England	
TOSI, S.p.A. FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Wingrove & Rogers Ltd.	Acornfield Rd. Kirkby, England	

MATERIALS-HANDLING EQUIPMENT–REMOTE
See Also MANIPULATORS–REMOTE
TONGS–HANDLING
SERVICES: MATERIALS HANDLING

ACF Industries, Inc.	750 3rd Ave. New York 17	NY
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
AMERAY CORP. Adv Pg 114	Route 46, Keavil	NJ
Automotive & Aircraft Div. Amer. Chain & Cable Co. Inc.	601 Stephenson Bldg. Detroit	Mich
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
BALDWIN-LIMA-HAMILTON CORP.		
Adv Pg 103	Dept H B, Philadelphia 42	Pa
Barnes Co., W. F. & John	301 S Water St. Rockford	Ill
Barnes & Reinecke, Inc.	230 E Ohio St. Chicago 11	Ill
Boucher & Co. Ltd.	Pike Mills, Green St. Kidderminster, Worcester, England	
British Electrical Repairs Ltd.	10 Charlotte St. Manchester 1, Eng	
BROOKS & PERKINS, INC. Adv Pg 48	1926 W Fort St. Detroit 16	Mich
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
CPC Engineering Corp.	Sturbridge	Mass
Carter & Viner	Cooden Sea Rd. Bexhill, Sussex, Eng	
CENTRAL RESEARCH LABS. INC.		
Adv. Pgs. 68, 69	Red Wing	Minn
Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn
DIAMOND POWER SPECIALTY CORP.		
Adv Pg 132	Box 415 Lancaster	Ohio
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks.	Goldsmith Ave. Portsmouth, Hants, Eng	
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	Erith, Kent, England	
GENERAL MILLS, INC. NUCLEAR EQPT. DEPT. MECH. DIV.		
Adv. Pgs. 16, 17	419 N 5th St. Minneapolis 1	Minn
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS.		
Adv Pg 74	Box 90515, Intl. Airpt. Sta. LA 45	Cal
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
Leybold-Hochvakum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
Liquid Metals, Inc.	Box 2666, Westford	Mass
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Metalab Equipment Co.	270 Duffy Ave. Hicksville	NY
Newman Industries Ltd.	Yate, Bristol, England	
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	PO Drawer E, Alameda	Cal
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Radiation Products, Inc.	Pt. 40 Rd. Flushing 52	NY
Research Equipment Co.	502 Sunnyside, Wheaton	Ill
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Teleweld Inc.	11536 Franklin St. Franklin Park	Ill
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 76, 77	Beech St. Beverly	Mass
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore

MATERIALS-TESTING APPARATUS
See Also HARDNESS TESTERS
STRESS-ANALYSIS EQUIPMENT

A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Aircraft Equip. Testing Co., Inc.	1808 Fleet St. Baltimore 31	Md
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
BALDWIN-LIMA-HAMILTON CORP.		
Adv Pg 103	Dept H B, Philadelphia 42	Pa
Barnes Development Co.	213 W Baltimore Pike, Lansdowne	Pa
Barnes & Reinecke, Inc.	230 E Ohio St. Chicago 11	Ill
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Bryans Aeroquipment Ltd.	Willow Ln. Mitcham, Surrey, England	
Cincinnati Sub Zero Products	3932 Reading Rd. Cincinnati	Ohio
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
Custom Scientific Instruments Inc.	541 Devon St. Kearny	NJ
Dice Co., J. W.	Englewood 41	NJ
Endecotts (Filters) Ltd.	Lombard Rd. London, SW19, England	
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Falk & Co. Ltd., M.	Emefco House, Reigate, Surrey, Eng	
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy

Greene Testing Labs, Inc., Arnold	6 Huron Dr, Natick	Mass
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Houston Instrument Corp.	Box 22234, Houston 27	Tex
Leybold-Hochvakum-Anlagen GmbH	Bonner Str, 504, Koln-Bayenthal, Ger	
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
Manson Laboratories, Inc.	375 Fairfield Ave. Stamford	Conn
Mast Development Co, Inc.	2212 E 12th St, Davenport	Iowa
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Pantatron Ltd.	5A Princes St, Hanover Sq, London W1, Eng	
Plasmadyne Corp.	3839 S Main St, Santa Ana	Cal
SELO	Via Monfalcone, 12, Milano, Italy	
St. John X-Ray Laboratory	Califon	NJ
Taylor, Taylor & Hobson Div, Rank Prec. Ind, Ltd.	Stoughton St, Leicester, England	
Teleweld Inc.	11535 Franklin St, Franklin Park	Ill
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Thermal Dynamics Corp.	Lebanon	NH
Torsion Balance Co.	35 Monehgan St. Clifton	NJ
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St, Cambridge, Eng	

MATRIX MATERIALS
See FUEL ELEMENTS
METALS, ALLOYS & COMPOUNDS

MEGOHMMETERS
See Also OHMMETERS

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
Associated Research, Inc.	3789 W Belmont Ave. Chicago 18	Ill
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Biddle Co., James G.	1316 Arch St, Philadelphia 7	Pa
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Bruel & Kjaer	Linde Alle 23, Naerum, Den	
Cubic Corp.	5575 Kearny Villa Rd, San Diego 11	Cal
Electronic Instruments Ltd.	Lower Mortlake Rd, Richmond, Surrey	Eng
Freed Transformer Co., Inc.	1718 Weirfield St, Brooklyn 27	NY
General Meters, Inc.	Box 1701, Grand Junction	Colo
General Radio Co.	West Concord	Mass
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
KEITHLEY INSTRUMENTS, INC. Adv Pg 234	**12415 Euclid Ave. Cleveland 6**	**Ohio**
Leeds & Northrup Co.	4936 Stenton Ave, Phila 44	Pa
Martindale Electric Co.	Box 617, Edgewater Br. Cleveland 7	Ohio
Meters, Inc.	5353 N Keystone Av, Indnpls 20	Ind
Mid-Eastern Electronics, Inc.	32 Commerce St, Springfield	NJ
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Physics Research Labs, Inc.	Box 555, Hempstead	NY
Precision Apparatus Co. Inc.	70-31 84th St. Glendale 27	NY
Siemens & Halske AG	Rheinbrueckenstr, 50, Karlsruhe, Germany	
Sticht Co. Inc., Herman H.	27 Park Pl. New York 7	NY
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
Triplett Electrical Instrument Co.	286 Harmon Rd. Bluffton	Ohio

METAL FABRICATORS—FERROUS

ACF Industries, Inc.	750 3rd Ave, New York 17	NY
Accurate Sheet Metal & Mfg. Works	2336-44 Milwaukee Ave. Chicago 47	Ill
AEROJET-GENERAL NUCLEONICS, Adv Pg 119	**Box 77, San Ramon**	**Cal**
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Allison Div. Gen. Motors Corp.	Box 894, Indianapolis	Ind
AMERAY CORP. Adv Pg 114	**Route 46, Keavil**	**NJ**
American Metal Products Co.	5959 Lindale Ave. Detroit 4	Mich
American Welding & Mfg. Co.	555 Dietz Rd, Warren	Ohio
Associated Engng. & Mfg. Corp.	210 Stonehouse Rd. Glen Ridge	NJ
AVERY & SAUL CO. Adv Pg 8	**115 Rindge Ave. Cambridge**	**Mass**
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BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St .New York 17**	**NY**
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
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Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Bishop & Co., J., Platinum Works	Malvern	Pa
Bleiwerk Goslar GmbH	Goslar, Germany	
Blickman, Inc., S.	7900 Gregory Ave. Weehawken	NJ
Bliss Co., E. W.	1375 Raff Rd. SW, Canton	Ohio
Braby & Co. Ltd., Frederick	Smithfield St, London EC1, England	
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Bud Radio, Inc.	2118 E 55 St. Cleveland 3	Ohio
CPC Engineering Corp.	Sturbridge	Mass
Cambridge Div. Standard Steel Corp.	2 Industrial Pk, Lowell	Mass
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Canadian Westinghouse Co, Ltd.	Box 510, Hamilton, Ontario, Canada	
Cayuga Machine & Fabricating Co. Inc.	200 W Gould Ave. Depew	NY
Cedar Rapids Engineering Co.	902 17th St, NE, Cedar Rapids	Iowa
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Condenser Service & Engng. Co, Inc.	150 Observer Hwy, Hoboken	NJ
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	**Box 748, Fort Worth**	**Tex**
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Curtiss-Wright Corp. Metals Processing Div.	Buffalo 15	NY
Downington Iron Works, Inc.	Wallace Ave. Downington	Pa
Driver Co., Wilbur B.	1875 McCarter Hwy, Newark 4	NJ
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks.	Goldsmith Ave. Portsmouth, Hants, Eng	
EX-CELL-O CORP. Adv. Pgs. 62, 63	**1200 Oakman Blvd. Detroit 32**	**Mich**
Farrel-Birmingham Co, Inc.	Ansonia	Conn
Firth-Derihon Stampings Ltd.	Dale Rd. N, Darley Dale, Nr. Matlock, Derbyshire, England	
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
General Alloys Co.	400 W 1st St, Boston 27	Mass
GENERAL AMERICAN TRANSPORTATION CORP. Adv Pg 58	**135 S LaSalle St. Chicago 3**	**Ill**
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. Adv Pg 106	**4809 Tod Ave. East Chicago**	**Ind**
Harty Co, Inc., R. V.	1433 Sloman Ave, Detroit 11	Mich
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Ingersoll Steel Div, Borg-Warner Corp.	New Castle	Ind
International Shielding Industries	Foot of West St, Wilmington	Del
Jerpbak-Bayless Co.	34155 Solon Rd. Solon	Ohio
Knapp Mills Inc.	23-15 Borden Ave, LIC	NY
Koppers Co. Inc, Nuclear Prods. Sec.	Pittsburgh 19	Pa
L. & F. MACHINE CO. Adv Pg 238	**2110 Belgrove Ave. Huntington Park**	**Cal**
Lasker Boiler & Engineering Corp.	3201 S Wolcott Ave. Chicago 8	Ill
Leemath, Inc.	Oak Dr, Syosset	NY
Lennard Co, Inc., P. M.	1061 E 8th St, Jacksonville 6	Fla
LINCOLN FOUNDRY CORP. Adv Pg 238	**2525 E 47 St. Los Angeles**	**Cal**
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Lukens Steel Co.	401 Lukens Bldg. Coatesville	Pa
Marvel-Schebler Products Div. Borg-Warner Corp.	2195 S Elwin Rd. Decatur	Ill
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Mason, Shaver & Rhoades, Inc.	Box 551, Irwin	Pa
Morfax Ltd.	Willow Ln, Mitcham, Surrey, England	
Mosler Safe Co.	Grand Blvd, Hamilton	Ohio
NATIONAL ANNEALING BOX CO. Adv Pg 268	**Washington**	**Pa**
National Forge Co.	10 Front St. Irvine, Warren County	Pa
National Tank & Boiler Co.	7210 Polson Ln. St. Louis	Mo
Nooter Corp.	1424 S 3rd St, St. Louis 66	Mo
Nordberg Mfg. Co.	3073 S Chase Ave, Milwaukee	Wis
Nuclear Metals, Inc.	Box 222 Concord	Mass
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO. Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
PITTSBURGH PIPING & EQUIPMENT CO. Adv Pg 246	**158 49th St. Pittsburgh**	**Pa**
Plasmadyne Corp.	3839 S Main St, Santa Ana	Cal
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Raetz Co., Robert C.	81 Montgomery St, Pawtucket	RI
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
Rimak Electronics Inc.	10929 Vanowen St, No. Hollywood	Cal
Risdon Mfg. Co.	Naugatuck	Conn
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
Ryerson & Son, Inc., Jos. T.	16 & Rockwell Sts, Chicago 8	Ill
S. I. A. C. Adv Pg 276T	**Via S. Sebastiano 2, Genoa, Italy**	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Scovill Mfg. Co. Mills Div.	99 Mill St, Waterbury 20	Conn
Southwestern Engineering Co.	4800 Santa Fe Ave, Los Angeles 58	Cal
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Steels Engng. Installations Ltd.	Sunderland, Durham, England	
Struthers Wells Corp.	Warren	Pa
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd, Bayside	NY
Taylor Engineering Corp.	6500 Epworth Blvd, Detroit 10	Mich
Teleweld Inc.	11535 Franklin St, Franklin Park	Ill
Terrisr-Consolidated Industries	22-24 Wooster St, New York 13	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	**Box 898, Attleboro**	**Mass**
Thompson, Ltd., John	Wolverhampton, England	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa
United Mfg. Div. W. L. Maxson Corp.	41 Haig St, Hamden 14	Conn
Westinghouse Elec Corp, Steam Div.	Lester	Pa

Wheeler Mfg. Co. C. H.	1850 Sedgley Ave. Philadelphia 32	Pa
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore
York Corp.	Grantley Rd. York	Pa

METAL FABRICATORS—NONFERROUS

ACF Industries, Inc.	750 3rd Ave. New York 17	NY
Accurate Sheet Metal & Mfg. Works	2336-44 Milwaukee Ave. Chicago 47	Ill
AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alpha Metals, Inc.	60R Water St. Jersey City 4	NJ
Aluminum Co. of America	1501 Alcoa Bldg. Pittsburgh 19	Pa
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
American Welding & Mfg. Co.	555 Dietz Rd. Warren	Ohio
Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Associated Engrg. & Mfg. Corp.	210 Stonehouse Rd. Glen Ridge	NJ
AVERY & SAUL CO. Adv Pg 8	115 Rindge Ave. Cambridge	Mass
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
BALDWIN-LIMA-HAMILTON CORP.		
Adv Pg 103	Dept H B, Philadelphia 42	Pa
Ballou & Co. Inc., B. A.	61 Peck St. Providence	RI
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Bishop & Co., J., Platinum Works	Malvern	Pa
Bleiwerk Goslar GmbH	Goslar, Germany	
Blickman, Inc., S.	7900 Gregory Ave. Weehawken	NJ
Bliss Co., E. W.	1375 Raff Rd. SW, Canton	Ohio
Braby & Co. Ltd., Frederick	Smithfield St. London EC1, England	
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
BROOKS & PERKINS, INC. Adv Pg 48	1926 W Fort St. Detroit 16	Mich
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Bud Radio, Inc.	2118 E 55 St. Cleveland 3	Ohio
CPC Engineering Corp.	Sturbridge	Mass
Cambridge Div. Standard Steel Corp.	2 Industrial Pk. Lowell	Mass
CAMBRIDGE SMELTING CO. Adv Pg 116	100 Pacific St. Cambridge	Mass
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Cayuga Machine & Fabricating Co. Inc.	200 W Gould Ave. Depew	NY
Cedar Rapids Engineering Co.	902 17th St. NE, Cedar Rapids	Iowa
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Dow Chemical Co.	Midland	Mich
Downington Iron Works, Inc.	Wallace Ave. Downington	Pa
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Driver Co., Wilbur B.	1875 McCarter Hwy. Newark 4	NJ
Edlow Lead Co.	729 Bank St. Columbus 16	Ohio
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks.	Goldsmith Ave. Portsmouth, Hants, Eng	
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Falstrom Co.	7 Falstrom Ct. Passaic	NJ
Fansteel Metallurgical Corp.	North Chicago	Ill
Farrel-Birmingham Co. Inc.	Ansonia	Conn
Firth-Derihon Stampings Ltd.	Dale Rd. N, Darley Dale, Nr. Matlock, Derbyshire, England	
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
General Alloys Co.	400 W 1st St. Boston 27	Mass
GENERAL AMERICAN TRANSPORTATION CORP.		
Adv Pg 58	135 S LaSalle St. Chicago 3	Ill
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO.		
Adv Pg 106	4809 Tod Ave. East Chicago	Ind
Harty Co. Inc., R. V.	1433 Sloman Ave. Detroit 11	Mich
HARVEY ALUMINUM, Adv Pg 93	19200 S Western Ave. Torrance	Cal
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
International Shielding Industries	Foot of West St. Wilmington	Del
Jerpbak-Bayless Co.	34150 Solon Rd. Solon	Ohio
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
L. & F. MACHINE CO. Adv Pg 238	2110 Belgrove Ave. Huntington Park	Cal
Lasker Boiler & Engineering Corp.	3201 S Wolcott Ave. Chicago 8	Ill
Lead Fabricators, Inc.	25 Belgrove Dr. Kearny	NJ
LEAD PRODUCTS, INC. Adv Pg 116	Hartford Rd. Manchester	Conn
Leemath, Inc.	Oak Dr. Syosset	NY
Lennard Co. Inc., P. M.	1061 E 8th St. Jacksonville 6	Fla
LINCOLN FOUNDRY CORP. Adv Pg 238	2525 E 49 St. Los Angeles	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Lytle Corp.	1404 San Mateo SE Albuquerque	NM
Marvel-Schebler Products Div. Borg-Warner Corp.	2195 S Elwin Rd. Decatur	Ill
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Mason, Shaver & Rhoades, Inc.	Box 551, Irwin	Pa
Morfax Ltd.	Willow Ln. Mitcham, Surrey, England	
Mosler Safe Co.	Grand Blvd. Hamilton	Ohio
NATIONAL ANNEALING BOX CO.		
Adv Pg 268	Washington	Pa
NATIONAL LEAD CO. Adv. Pgs. 134, 135	111 Broadway, New York 6	NY
National Tank & Boiler Co.	7210 Polson Ln. St. Louis	Mo
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
Nordberg Mfg. Co.	3073 S Chase Ave. Milwaukee	Wis
NUCLEAD, INC. Adv Pg 116	110 Pacific St. Cambridge	Mass
Nuclear Metals, Inc.	Box 222 Concord	Mass
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	PO Drawer E, Alameda	Cal
Phelps Dodge Copper Products Corp.	300 Park Ave. New York 22	NY
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
PITTSBURGH PIPING & EQUIPMENT CO.		
Adv Pg 246	158 49th St. Pittsburgh	Pa
Plasmadyne Corp.	3839 S Main St. Santa Ana	Cal
PRECISION EXTRUSIONS INC. Adv Pg 248	720 E Green Ave. Bensenville	Ill
Precision Tube Co. Inc.	Church Rd & Wissahickon Ave. N Wales	Pa
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Reetz Co., Robert C.	81 Montgomery St. Pawtucket	RI
RELIANCE INCORPORATED, Adv Pg 261	1210-1212 Adams Ave. Phila 24	Pa
Revere Copper & Brass, Inc.	230 Park Ave. New York 17	NY
Reynolds Metals Co.	Box 2346, Richmond 18	Va
Rimak Electronics Inc.	10929 Vanowen St. No. Hollywood	Cal
Risdon Mfg. Co.	Naugatuck	Conn
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
Rolock Inc.	1350 Kings Hwy. Fairfield	Conn
Ryerson & Son, Inc., Jos. T.	16 & Rockwell Sts. Chicago 8	Ill
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Scovill Mfg. Co. Mills Div.	99 Mill St. Waterbury 20	Conn
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Southern Lead Rolling Co.	Box 6195, Dallas 22	Tex
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
Spincraft, Inc.	4122 W State St. Milwaukee 8	Wis
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Sturtevant Mill Co.	103 Clayton St. Boston 22	Mass
SUPERIOR TUBE CO. Adv Pg 28	Box 191, Norristown	Pa
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd. Bayside	NY
Taylor Engineering Corp.	6500 Epworth Blvd. Detroit 10	Mich
Terrisa-Consolidated Industries	22-24 Wooster St. New York 13	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 898, Attleboro	Mass
Thompson, Ltd., John	Wolverhampton, England	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.		
Adv. Pgs. 138, 139, 144	Cheswick	Pa
Westinghouse Elec Corp. Steam Div.	Lester	Pa
Wheeler Mfg. Co. C. H.	1850 Sedgley Ave. Philadelphia 32	Pa
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore
WOLVERINE TUBE DIV. CALUMET & HECLA, INC.		
Adv Pg 91	17260 Southfield Rd. Allen Park	Mich
York Corp.	Grantley Rd. York	Pa

METALLOGRAPHIC EQUIPMENT

American Optical Co. Instrument Div.	Box A, Buffalo 15	NY
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Buehler, Ltd.	2120 Greenwood St. Evanston	Ill
Dental Fillings Ltd.	49, Grayling Rd. London N16, England	
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Hacker & Co. Inc., William J.	Box 646, W Caldwell	NJ
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Pantatron Ltd.	5A Princes St. Hanover Sq. London W1, Eng	
Unitron Instrument Div. United Scientific Co.	204 Milk St. Boston	Mass
Water Associates	45 Franklin St. Framingham	Mass

METALLURGICAL

See SERVICES: METALLURGICAL

METALS, ALLOYS & COMPOUNDS (including RARE EARTHS)

See Also CASTINGS
FORGINGS
FUEL ELEMENTS

METALS—HIGH-DENSITY ALLOY, —LAMINATED, —POWDERED AND VACUUM-MELTED PIPING & TUBING

ALUMINUM

Aceto Chemical Co, Inc.	40-40 Lawrence St. Flushing 54	NY
Alloy Metal Sales Ltd.	215 Lakeshore Blvd. E, Toronto 2, Can	
Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Alpha Metals, Inc.	60R Water St, Jersey City 4	NJ
Aluminum Wire & Cable Co., Ltd.	2 St James's Sq, London SW1, England	
Aluminum Co. of America	1501 Alcoa Bldg. Pittsburgh 19	Pa
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
AMERICAN SMELTING & REFINING CO. Adv Pg 125	**120 Broadway, New York 5**	**NY**
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Avondale Shipyards, Inc.	Box 1030, New Orleans 8	La
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Birkett, Billington & Newton Ltd., T.M.	Etruria Rd. Hanley, Stoke-on-Trent, Staffs, England	
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Bridgeport Brass Co.	30 Grand St. Bridgeport 2	Conn
BROOKS & PERKINS, INC. Adv Pg 48	**1926 W Fort St. Detroit 16**	**Mich**
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Dow Chemical Co.	Midland	Mich
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Enthoven & Sons, Ltd., H. J.	South Pl, London, EC2, England	
Flowline Corp.	New Castle	Pa
HARVEY ALUMINUM, Adv Pg 93	**19200 S Western Ave. Torrance**	**Cal**
Kawecki Chemical Co, Inc.	220 E 42nd St, New York	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts, St. Louis 7	Mo
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
NATIONAL LEAD CO. Adv. Pgs. 134,135	**111 Broadway, New York 6**	**NY**
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp, Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Paul & Stein Bros. Inc., F. H.	235 5th Ave. New York 16	NY
PECHINEY, Adv Pg 105	**23 Rue Balzac, Paris, Seine, France**	
RELIANCE INCORPORATED, Adv Pg 261	**1210-1212 Adams Ave. Phila 24**	**Pa**
Revere Copper & Brass, Inc.	230 Park Ave. New York 17	NY
Reynolds Metals Co.	Box 2346, Richmond 18	Va
Ryerson & Son, Inc., Jos. T.	16 & Rockwell Sts. Chicago 8	Ill
Scovill Mfg. Co. Mills Div.	99 Mill St. Waterbury 20	Conn
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
SHOWA DENKO K. K. Adv Pg 276W	**34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan**	
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	**Box 898, Attleboro**	**Mass**
Ugine	10 rue du General Foy, Paris 8, France	
Vanadium Corp. of America	420 Lexington Ave. New York 17	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
VIENER & SONS, HYMAN, Adv Pg 262	**5300 Hatcher St. Box 573, Richmond 5**	**Va**
Western Gold & Platinum Co.	525 Harbor Blvd, Belmont	Cal
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	**Cheswick**	**Pa**
WOLVERINE TUBE DIV. CALUMET & HECLA, INC. Adv Pg 91	**17260 Southfield Rd. Allen Park**	**Mich**

ANTIMONY

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Alpha Metals, Inc.	60R Water St, Jersey City 4	NJ
AMERICAN SMELTING & REFINING CO. Adv Pg 125	**120 Broadway, New York 5**	**NY**
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Barium & Chemicals, Inc.	4043 Erie St. Willoughby	Ohio
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
CAMBRIDGE SMELTING CO. Adv Pg 116	**180 Pacific St. Cambridge**	**Mass**
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W. Montreal, Que Can	
Degussa	Frankfurt/Main, Germany	
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
LEAD PRODUCTS, INC. Adv Pg 116	**Hartford Rd. Manchester**	**Conn**
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts, St. Louis 7	Mo
Metal & Thermit Corp.	Railway Ave, Rahway	NJ
NATIONAL LEAD CO. Adv. Pgs. 134,135	**111 Broadway, New York 6**	**NY**
NUCLEAD, INC. Adv Pg 116	**110 Pacific St. Cambridge**	**Mass**
Ohio Semiconductors, Inc.	1205 Chesapeake Ave, Columbus 12	Ohio
Paul & Stein Bros. Inc., F. H.	235 5th Ave, New York 16	NY
Penn Rare Metals, Inc.	Box 1-A, Revere	Pa
PICKER X-RAY CORP. Adv Pg 109	**25 S Broadway, White Plains**	**NY**
RELIANCE INCORPORATED, Adv Pg 261	**1210-1212 Adams Ave. Phila 24**	**Pa**
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Southern Lead Rolling Co.	Box 6195, Dallas 22	Tex
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
VIENER & SONS, HYMAN, Adv Pg 262	**5300 Hatcher St. Box 573, Richmond 5**	**Va**
Western Gold & Platinum Co.	525 Harbor Blvd. Belmont	Cal

BARIUM

Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Barium & Chemicals, Inc.	4043 Erie St. Willoughby	Ohio
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cooper Metallurgical Associates	Box 3991, Cleveland 20	Ohio
Degussa	Frankfurt/Main, Germany	
King Laboratories, Inc.	127 Solar St, Syracuse 3	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
New Metals & Chemicals Ltd.	Chancery La, London, WC2, England	
Nuclear Fuels & Rare Metals Corp.	817 E 18th St, LA 21	Cal
PICKER X-RAY CORP. Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
STE ELECTRO-METALLURGIQUE DU PLANET, Adv Pg 276L	**9 Rue Chouchot, Paris 9, France**	
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
Water Associates	45 Franklin St, Framingham	Mass

BERYLLIUM

Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Beryllium Corp.	Box 1462, Reading	Pa
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Bridgeport Brass Co.	30 Grand St. Bridgeport 2	Conn
BRUSH BERYLLIUM CO. Adv Pg 84	**5209 Euclid Ave. Cleveland 3**	**Ohio**
Degussa	Frankfurt/Main, Germany	
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
General Atrometals Corp.	320 Yonkers Ave, Yonkers 2	NY
Job-O-Steinbeck	Reinbek, Bz. Hmb, Germany	
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
New Metals & Chemicals Ltd.	Chancery La, London, WC2, England	
Nuclear Fuels & Rare Metals Corp.	817 E 18th St, LA 21	Cal
Nuclear Metals, Inc.	Box 222 Concord	Mass
PECHINEY, Adv Pg 105	**23 Rue Balzac, Paris, Seine, France**	
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	**Box 898, Attleboro**	**Mass**
Thermal Refractories Corp.	4501 Dell Ave, North Bergen	NJ
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
Water Associates	45 Franklin St, Framingham	Mass

BERYLLIUM OXIDE

Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Beryl Ores Co.	Box 105, Rt. 1, Arvada	Colo
Beryllium Corp.	Box 1462, Reading	Pa
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
BRUSH BERYLLIUM CO. Adv Pg 84	**5209 Euclid Ave. Cleveland 3**	**Ohio**
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	**Box 608, San Diego 12**	**Cal**
Job-O-Steinbeck	Reinbek, Bz. Hmb, Germany	
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
National Beryllia Corp.	4501 Dell Ave, North Bergen	NJ
Olin Mathieson Chemical Corp, Nuclear Fuels Oper.	275 Winchester Ave, New Haven	Conn
PECHINEY, Adv Pg 105	**23 Rue Balzac, Paris, Seine, France**	
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Thermal Refractories Corp.	4501 Dell Ave, North Bergen	NJ
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**

BISMUTH

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY

Alpha Metals, Inc.	60R Water St. Jersey City 4	NJ
Amco Research, Inc.	1270 Ave of the Americas, New York 20	
AMERICAN SMELTING & REFINING CO. Adv Pg 125	120 Broadway, New York 5	NY
Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerro de Pasco Sales Corp.	300 Park Ave. New York 22	NY
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W. Montreal, Que Can	
Degussa	Frankfurt/Main, Germany	
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Fine Chemical Co.	250 W 57th St. New York 19	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts. St. Louis 7	Mo
Ohio Semiconductors, Inc.	1205 Chesapeake Ave. Columbus 12	Ohio
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VIENER & SONS, HYMAN, Adv Pg 262	5300 Hatcher St. Box 573, Richmond 5	Va

BORAL

Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
BROOKS & PERKINS, INC. Adv Pg 48	1926 W Fort St. Detroit 16	Mich
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
New Metals & Chemicals Ltd.	Chancery Ln. London, WC2, England	
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass

BORON

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
American Potash & Chem. Corp.	99 Park Ave. New York 16	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cooper Metallurgical Associates	Box 3991, Cleveland 20	Ohio
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Fine Chemical Co.	250 W 57th St. New York 19	NY
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
Kawecki Chemical Co. Inc.	220 E 42nd St. New York	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Molybdenum Corp. of America	375 Park Ave. New York 22	NY
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Shieldalloy Corp.	Newfield	NJ
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
Ugine	10 rue du General Foy, Paris 8, France	
U. S. Borax & Chemical Corp.	50 Rockefeller Plaza, New York 20	NY
Vanadium Corp. of America	420 Lexington Ave. New York 17	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
Water Associates	45 Franklin St. Framingham	Mass
Wood Ridge Chemical Corp.	Park Pl. E. Wood Ridge	NJ

BORON CARBIDE DISPERSIONS

Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Electro-Thermal Industries, Inc.	57 S Main St. Pearl River	NY
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
Lignostone Import Co.	Box 65, Gracie Sta. NY 28	NY
NATIONAL CARBON CO. DIV. UCC, Adv. Pg. 4th Cover	270 Park Ave. New York 17	NY
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
New Metals & Chemicals Ltd.	Chancery Ln. London, WC2, England	
Norton Co.	1 New Bond St. Worcester 6	Mass
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd. Bayside	NY
TRG, Inc.	2 Aerial Way, Syosset	NY
Ugine-Carbone	15 rue du Rocher, Paris 8, France	
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	Cheswick	Pa

BORON, STAINLESS STEEL

Allegheny Ludlum Steel Corp.	Oliver Bldg. Pittsburgh 22	Pa
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Carpenter Steel Co.	607 Washington St. Reading	Pa
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
Kelsey-Hayes Co.	New Hartford	NY
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Stainless Foundry & Engineering, Inc.	5132 N 35th St. Milwaukee 9	Wis
Superior Steel Div. Copperweld Steel Co.	Carnegie	Pa
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd. Bayside	NY
TRG, Inc.	2 Aerial Way, Syosset	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
Ugine	10 rue du General Foy, Paris 8, France	
U. S. STEEL CORP. Adv. Pgs. 56, 57	525 Wm. Penn Pl. Pittsburgh 30	Pa
Universal Cyclops Steel Corp.	Bridgeville	Pa

BORON, URANIUM

Cooper Metallurgical Associates	Box 3991, Cleveland 20	Ohio
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd. Bayside	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	Cheswick	Pa

BRASS AND BRONZE

American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
AMERICAN SMELTING & REFINING CO. Adv Pg 125	120 Broadway, New York 5	NY
Anaconda Co.	25 Broadway, New York 4	NY
Avondale Shipyards, Inc.	Box 1030, New Orleans 8	La
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Birkett, Billington & Newton Ltd., T. M.	Etruria Rd. Hanley, Stoke-on-Trent, Staffs, England	
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Bridgeport Brass Co.	30 Grand St. Bridgeport 2	Conn
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
RELIANCE INCORPORATED, Adv Pg 261	1210-1212 Adams Ave. Phila 24	Pa
Revere Copper & Brass, Inc.	230 Park Ave. New York 17	NY
SANDUSKY FOUNDRY & MACHINE CO. Adv Pg 94	W Market St. Sandusky	Ohio
Scovill Mfg. Co. Mills Div.	99 Mill St. Waterbury 20	Conn
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
VIENER & SONS, HYMAN, Adv Pg 262	5300 Hatcher St. Box 573, Richmond 5	Va
Wisconsin Centrifugal Foundry, Inc.	905 E St. Paul Ave. Waukesha	Wis
WOLVERINE TUBE DIV. CALUMET & HECLA, INC. Adv Pg 91	17260 Southfield Rd. Allen Park	Mich

CADMIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alpha Metals, Inc.	60R Water St. Jersey City 4	NJ
Amco Research, Inc.	1270 Ave of the Americas, New York 20	NY
AMERICAN SMELTING & REFINING CO. Adv Pg 125	120 Broadway, New York 5	NY

Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerro de Pasco Sales Corp.	300 Park Ave, New York 22	NY
Climax Molybdenum Co. Div. Amer. Metal Climax, Inc.	1270 Ave. of the Americas, New York 20	NY
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W, Montreal, Que Can	
Degussa	Frankfurt/Main, Germany	
Division Lead Co.	7742 W 61st Pl. Summit	Ill
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Eagle-Picher Co.	American Bldg. Cincinnati	Ohio
Fine Chemical Co.	250 W 57th St, New York 19	NY
General Atrometals Corp.	320 Yonkers Ave, Yonkers 2	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts, St. Louis 7	Mo
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
NATIONAL LEAD CO. Adv. Pgs. 134, 135	**111 Broadway, New York 6**	**NY**
Nuclear Fuels & Rare Metals Corp.	817 E 18th St, LA 21	Cal
REACTOR EXPERIMENTS, INC. Adv Pg 224	**1485 Bayshore Blvd. San Francisco 24**	**Cal**
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**

CALCIUM

Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Barium & Chemicals, Inc.	4043 Erie St. Willoughby	Ohio
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Degussa	Frankfurt/Main, Germany	
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Metal Hydrides, Inc.	12-24 Congress St, Beverly	Mass
Nelco Metals, Inc.	Canaan	Conn
PECHINEY, Adv Pg 105	**23 Rue Balzac, Paris, Seine, France**	
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
STE ELECTRO-METALLURGIQUE DU PLANET, Adv Pg 276L	**9 Rue Chauchat, Paris 9, France**	
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
Union Carbide Metals Co. Div. UCC	270 Park Ave, New York 17	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
Water Associates	45 Franklin St, Framingham	Mass

CERIUM

Alvarez Terner Corp.	233 Broadway, New York 7	NY
American Potash & Chem. Corp.	99 Park Ave, New York 16	NY
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerium Metals & Alloys Div. Ronson Metals Corp.	45-65 Manufacturers Pl. Newark 5	NJ
General Atrometals Corp.	320 Yonkers Ave, Yonkers 2	NY
Grace & Co, W.R., Davison Chemical Div.	Pompton Plains	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts, St. Louis 7	Mo
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	**2 Richwood Pl. Denville**	**NJ**
PECHINEY, Adv Pg 105	**23 Rue Balzac, Paris, Seine, France**	
PICKER X-RAY CORP. Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
VITRO CHEMICAL CO. Adv Pg 254	**342 Madison Ave. New York 17**	**NY**
Water Associates	45 Franklin St, Framingham	Mass

CESIUM

Aceto Chemical Co. Inc.	40-40 Lawrence St, Flushing	NY
Bio-Rad Laboratories	1257 S 32 St, Richmond	Cal
Fine Chemical Co.	250 W 57th St, New York 19	NY
Kawecki Chemical Co.	220 E 42 St, New York	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**

CHROMIUM

Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chicago Development Corp.	5810 47th Ave. Riverdale	Md
Cooper Metallurgical Associates	Box 3991, Cleveland 20	Ohio
Kawecki Chemical Co. Inc.	220 E 42nd St, New York	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Maryland Alloys Corp.	5245 Fairlawn Ave, Baltimore 15	Md
Metal Hydrides, Inc.	12-24 Congress St, Beverly	Mass
Metal & Thermit Corp.	Rahway Ave, Rahway	NJ
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
Nuclear Metals, Inc.	Box 222 Concord	Mass
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Shieldalloy Corp.	Newfield	NJ
SHOWA DENKO K. K. Adv Pg 276W	**34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan**	
STE ELECTRO-METALLURGIQUE DU PLANET, Adv Pg 276L	**9 Rue Chauchat, Paris 9, France**	
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
Ugine	10 rue du Général Foy, Paris 8, France	
Union Carbide Metals Co. Div. UCC	270 Park Ave, New York 17	NY
Vanadium Corp. of America	420 Lexington Ave, New York 17	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
Water Associates	45 Franklin St, Framingham	Mass

COBALT

Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Buchler & Co.	Frankfurter Str, 294 Braunschweig, Ger	
Duran Co., A. V.	950 Francis Pl, St. Louis 5	Mo
Fine Chemical Co.	250 W 57th St, New York 19	NY
Foote Mineral Co.	18 W Chelten Ave, Phila 44	Pa
Instruments, Inc.	Box 556, Tulsa	Okla
International Nickel Co. Inc.	67 Wall St, New York 5	NY
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
Kulite Tungsten Co.	1040 Hoyt Ave, Ridgefield	NJ
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Metal Hydrides, Inc.	12-24 Congress St, Beverly	Mass
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
NATIONAL LEAD CO. Adv. Pgs. 134, 135	**111 Broadway, New York 6**	**NY**
New Metals & Chemicals Ltd.	Chancery Ln, London, WC2, England	
Nuclear Fuels & Rare Metals Corp.	817 E 18th St, LA 21	Cal
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Shieldalloy Corp.	Newfield	NJ
Ugine	10 rue du General Foy, Paris 8, France	
Union Miniere Du Haut-Katanga	6 Rue Montagne du Parc, Brussels 1, Belg	
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
VITRO CHEMICAL CO. Adv Pg 254	**342 Madison Ave. New York 17**	**NY**
Water Associates	45 Franklin St, Framingham	Mass
Western Gold & Platinum Co.	625 Harbor Blvd, Belmont	Cal

COLUMBIUM (SEE NIOBIUM)

COPPER

Amor Research, Inc.	1270 Ave of the Americas, New York 20	NY
American Silver Co. Inc.	38-07 Prince St. Flushing 54	NY
AMERICAN SMELTING & REFINING CO. Adv Pg 125	**120 Broadway, New York 5**	**NY**
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Birkett, Billington & Newton Ltd., T. M.	Etruria Rd, Hanley, Stoke-on-Trent, Staffs, England	
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Bridgeport Brass Co.	30 Grand St, Bridgeport 2	Conn
British Insulated Callender's Cables, Ltd.	21 Bloomsbury St, London, WC1, Eng	
Chase Brass & Copper Co.	236 Grand St, Waterbury	Conn
Chromium Corporation of America	Box 1229, Waterbury 20	Conn
Climax Molybdenum Co. Div. Amer. Metal Climax, Inc.	1270 Ave. of the Americas, New York 20	NY
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Enthoven & Sons, Ltd., H. J.	South Pl, London, EC2, England	
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts, St. Louis 7	Mo

Mallory & Co., Inc, P. R.	3029 E Washington St, Indapls, 6	Ind
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
Nuclear Metals, Inc.	Box 223 Concord	Mass
Phelps Dodge Copper Products Corp.	300 Park Ave. New York 22	NY
RELIANCE INCORPORATED, Adv Pg 261	1210-1212 Adams Ave. Phila 24	Pa
Revere Copper & Brass, Inc.	230 Park Ave. New York 17	NY
Scovill Mfg. Co. Mills Div.	99 Mill St. Waterbury 20	Conn
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Union Miniere Du Haut-Katanga	6 Rue Montagne du Parc, Brussels 1, Belg	
VIENER & SONS, HYMAN, Adv Pg 262	5300 Hatcher St. Box 573, Richmond 5	Va
WOLVERINE TUBE DIV. CALUMET & HECLA, INC. Adv Pg 91	17260 Southfield Rd. Allen Park	Mich

DYSPROSIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alvares Terner Corp.	233 Broadway, New York 7	NY
American Potash & Chem. Corp.	99 Park Ave. New York 16	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 25	Pa
Cerium Metals & Alloys Div. Ronson Metals Corp.	45-65 Manufacturers Pl. Newark 5	NJ
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Grace & Co. W. R., Davison Chemical Div.	Pompton Plains	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	St. Louis	Mich
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
REACTOR EXPERIMENTS, INC. Adv Pg 224	1485 Bayshore Blvd. San Francisco 24	Cal
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. Adv Pg 254	342 Madison Ave. New York 17	NY
VITRO CORP. OF AMERICA, Adv. Pgs. 213, 276M	261 Madison Ave. New York 36	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	Cheswick	Pa

DYSPROSIUM DISPERSIONS

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alvares Terner Corp.	233 Broadway, New York 7	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	St. Louis	Mich
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
Sylvania-Corning Nuclear Corp	208-20 Willets Point Blvd, Bayside	NY
TRG, Inc.	2 Aerial Way, Syosset	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	Cheswick	Pa

ERBIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alvares Terner Corp.	233 Broadway, New York 7	NY
American Potash & Chem. Corp.	99 Park Ave. New York 16	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerium Metals & Alloys Div. Ronson Metals Corp.	45-65 Manufacturers Pl. Newark 5	NJ
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Grace & Co. W. R., Davison Chemical Div.	Pompton Plains	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	St. Louis	Mich
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
Nuclear Fuels & Rare Metals Corp.	817 E 18th St. LA 21	Cal
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. Adv Pg 254	342 Madison Ave. New York 17	NY

EUROPIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alvares Terner Corp.	233 Broadway, New York 7	NY
American Potash & Chem. Corp.	99 Park Ave. New York 16	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerium Metals & Alloys Div. Ronson Metals Corp.	45-65 Manufacturers Pl. Newark 5	NJ
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Grace & Co. W. R., Davison Chemical Div.	Pompton Plains	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	St. Louis	Mich
New Metals & Chemicals Ltd.	Chancery Ln. London, WC2, England	
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
Nuclear Fuels & Rare Metals Corp.	817 E 18th St. LA 21	Cal
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
REACTOR EXPERIMENTS, INC. Adv Pg 224	1485 Bayshore Blvd. San Francisco 24	Cal
Research Chemicals Div Nuclear Corp. of America	Box 431, Burbank	Cal
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
TRG, Inc.	2 Aerial Way, Syosset	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. Adv Pg 254	342 Madison Ave. New York 17	NY
VITRO CORP. OF AMERICA, Adv. Pgs. 213, 276M	261 Madison Ave. New York 36	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	Cheswick	Pa

GADOLINIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alvares Terner Corp.	233 Broadway, New York 7	NY
American Potash & Chem. Corp.	99 Park Ave. New York 16	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerium Metals & Alloys Div. Ronson Metals Corp.	45-65 Manufacturers Pl. Newark 5	NJ
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Grace & Co. W. R., Davison Chemical Div.	Pompton Plains	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	St. Louis	Mich
New Metals & Chemicals Ltd.	Chancery Ln. London, WC2, England	
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
Nuclear Fuels & Rare Metals Corp.	817 E 18th St. LA 21	Cal
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	Saxonburg Blvd. Saxonburg	Pa
TRG, Inc.	2 Aerial Way, Syosset	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. Adv Pg 254	342 Madison Ave. New York 17	NY
VITRO CORP. OF AMERICA, Adv. Pgs. 213, 276M	261 Madison Ave. New York 36	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	Cheswick	Pa

GADOLINIUM DISPERSIONS

Alvares Terner Corp.	233 Broadway, New York 7	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Electro-Thermal Industries, Inc.	57 S Main St. Pearl River	NY
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY

GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV.		
Adv Pg 60	St. Louis	Mich
New Metals & Chemicals Ltd.	Chancery Ln, London, WC2, England	
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	2 Rickwood Pl. Denville	NJ
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd, Bayside	NY
TRG, Inc.	2 Aerial Way, Syosset	NY
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.		
Adv. Pgs. 138, 139, 144	Cheswick	Pa

GALLIUM

Aceto Chemical Co. Inc.	40-40 Lawrence St. Flushing 54	NY
Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alpha Metals, Inc.	60R Water St. Jersey City 4	NJ
Aluminum Co. of America	1501 Alcoa Bldg. Pittsburgh 19	Pa
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Eagle-Picher Co.	American Bldg. Cincinnati	Ohio
Fine Chemical Co.	250 W 57th St, New York 19	NY
Hughes Semiconductor Div.	500 Superior Ave. Newport Beach	Cal
Indium Corp. of America	1676 Lincoln Ave, Utica 4	NY
Kawecki Chemical Co. Inc.	220 E 42nd St. New York	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
New Metals & Chemicals Ltd.	Chancery Ln, London, WC2, England	
Ohio Semiconductors, Inc.	1205 Chesapeake Ave. Columbus 12	Ohio
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Penn Rare Metals, Inc.	Box 1-A, Revere	Pa
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	Saxonburg Blvd. Saxonburg	Pa
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY
Water Associates	45 Franklin St, Framingham	Mass

GERMANIUM

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Alpha Metals, Inc.	60R Water St. Jersey City 4	NJ
Amco Research, Inc.	1270 Ave of the Americas, New York 20	NY
AMERICAN SMELTING & REFINING CO.		
Adv Pg 125	120 Broadway, New York 5	NY
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Climax Molybdenum Co. Div. Amer. Metal Climax, Inc.	1270 Ave. of the Americas, New York 20	NY
Eagle-Picher Co.	American Bldg. Cincinnati	Ohio
Fine Chemical Co.	250 W 57th St, New York 19	NY
Indium Corp. of America	1676 Lincoln Ave, Utica 4	NY
Kawecki Chemical Co, Inc.	220 E 42nd St, New York	NY
Mackay, Inc., A.D.	198 Broadway, New York 38	NY
Penn Rare Metals, Inc.	Box 1-A, Revere	Pa
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	Saxonburg Blvd. Saxonburg	Pa
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
Union Miniere Du Haut-Katanga	6 Rue Montagne du Parc, Brussels 1, Belg	
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY

GOLD

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Alpha Metals, Inc.	60R Water St. Jersey City 4	NJ
Amco Research, Inc.	1270 Ave of the Americas, New York 20	NY
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
AMERICAN SMELTING & REFINING CO.		
Adv Pg 125	120 Broadway, New York 5	NY
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bishop & Co., J., Platinum Works	Malvern	Pa
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Climax Molybdenum Co. Div. Amer. Metal Climax, Inc.	1270 Ave. of the Americas, New York 20	NY
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W, Montreal, Que Can	
Consolidated Reactive Metals, Inc.	115 Hoyt St. Mamaroneck	NY
Degussa	Frankfurt/Main, Germany	
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Handy & Harman	82 Fulton St. New York 38	NY
Hill Co., C.R.	35 W Grand River, Detroit 26	Mich
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
REACTOR EXPERIMENTS, INC.		
Adv Pg 224	1485 Bayshore Blvd. San Francisco 24	Cal
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY
Water Associates	45 Franklin St, Framingham	Mass
Western Gold & Platinum Co.	525 Harbor Blvd, Belmont	Cal

HAFNIUM

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Carborundum Metals Co.	Akron	NY
Chemical Commerce	166 Clifford St. Newark 5	NJ
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Fine Chemical Co.	250 W 57th St, New York 19	NY
Foote Mineral Co.	18 W Chelten Ave. Phila 44	Pa
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
Grace & Co, W. R., Davison Chemical Div.	Pompton Plains	NJ
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Olin Mathieson Chemical Corp, Nuclear Fuels Oper.	275 Winchester Ave, New Haven	Conn
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Shieldalloy Corp.	Newfield	NJ
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 898, Attleboro	Mass
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.		
Adv. Pgs. 138, 139, 144	Cheswick	Pa

HAFNIUM DISPERSIONS

Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Electro-Thermal Industries, Inc.	57 S Main St, Pearl River	NY
General Astrometals Corp.	820 Yonkers Ave, Yonkers 2	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd, Bayside	NY
TRG, Inc.	2 Aerial Way, Syosset	NY
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.		
Adv. Pgs. 138, 139, 144	Cheswick	Pa

INDIUM

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Alpha Metals, Inc.	60R Water St. Jersey City 4	NJ
AMERICAN SMELTING & REFINING CO.		
Adv Pg 125	120 Broadway, New York 5	NY
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerro de Pasco Sales Corp.	300 Park Ave. New York 22	NY
Chemical Commerce	166 Clifford St. Newark 5	NJ
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W, Montreal, Que Can	
Degussa	Frankfurt/Main, Germany	
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Hughes Semiconductor Div.	500 Superior Ave. Newport Beach	Cal

Indium Corp. of America	1676 Lincoln Ave. Utica 4	NY
Kawecki Chemical Co. Inc.	220 E 42nd St. New York	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Ohio Semiconductors, Inc.	1205 Chesapeake Ave. Columbus 12	Ohio
Paul & Stein Bros. Inc., F. H.	235 5th Ave. New York 16	NY
REACTOR EXPERIMENTS, INC.		
Adv Pg 224	**1485 Bayshore Blvd. San Francisco 24**	**Cal**
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	**116 Broad St. New York 4**	**NY**
Water Associates	45 Franklin St. Framingham	Mass
Western Gold & Platinum Co.	525 Harbor Blvd. Belmont	Cal

IRIDIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bishop & Co., J., Platinum Works	Malvern	Pa
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Consolidated Reactive Metals, Inc.	115 Hoyt St. Mamaroneck	NY
Degussa	Frankfurt/Main, Germany	
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Fine Chemical Co.	250 W 57th St. New York 19	NY
Fleischman, Burd & Co. Inc.	1271 Ave. of Americas, New York 20	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Nuclear Fuels & Rare Metals Corp.	817 E 18th St. LA 21	Cal
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	**116 Broad St. New York 4**	**NY**
Western Gold & Platinum Co.	525 Harbor Blvd. Belmont	Cal

IRON

American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
Antara Chemicals, Div. Gen Anil. & Film Corp.	435 Hudson St. New York 14	NY
Baker Chemical Co., J. T.	Phillipsburg	NJ
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Birkett, Billington & Newton Ltd., T. M.	Etruria Rd. Hanley, Stoke-on-Trent, Staffs, England	
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W. Montreal, Que Can	
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Farrel-Birmingham Co. Inc.	Ansonia	Conn
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts. St. Louis 7	Mo
Meehanite Metal Corp.	714 North Ave. New Rochelle	NY
Metal Diffusions Ltd.	292 Worton Rd. Isleworth, Middx, Eng	
PICKER X-RAY CORP. Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SHOWA DENKO K. K. Adv Pg 276W	**34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan**	
U. S. STEEL CORP. Adv. Pgs. 56, 57	**525 Wm. Penn Pl. Pittsburgh 30**	**Pa**
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	**116 Broad St. New York 4**	**NY**
Water Associates	45 Franklin St. Framingham	Mass
Westinghouse Elec Corp. Materials Mfg.	Blairsville	Pa

LANTHANUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alvares Terner Corp.	233 Broadway, New York 7	NY
American Potash & Chem. Corp.	99 Park Ave. New York 16	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerium Metals & Alloys Div. Ronson Metals Corp.	45-65 Manufacturers Pl. Newark 5	NJ
Chemical Commerce	166 Clifford St. Newark 5	NJ
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Grace & Co. W. R., Davison Chemical Div.	Pompton Plains	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	**St. Louis**	**Mich**
New Metals & Chemicals Ltd.	Chancery Ln. London, WC2, England	
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	**2 Richwood Pl. Denville**	**NJ**
PECHINEY, Adv Pg 105	**23 Rue Balzac, Paris, Seine, France**	
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
VITRO CHEMICAL CO. Adv Pg 254	**342 Madison Ave. New York 17**	**NY**
Water Associates	45 Franklin St. Framingham	Mass

LEAD

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alpha Metals, Inc.	60R Water St. Jersey City 4	NJ
Amco Research, Inc.	1270 Ave of the Americas, New York 20	NY
AMERAY CORP. Adv Pg 114	**Route 46, Kenvil**	**NJ**
AMERICAN SMELTING & REFINING CO. Adv Pg 125	**120 Broadway, New York 5**	**NY**
Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Andel & Co. Inc.	5218 N Kedzie Ave. Chicago 25	Ill
Baker Chemical Co., J. T.	Phillipsburg	NJ
BAR-RAY PRODUCTS, INC. Adv Pg 242	**209 25th St. Brooklyn 32**	**NY**
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Birkett, Billington & Newton Ltd., T. M.	Etruria Rd. Hanley, Stoke-on-Trent, Staffs, England	
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
CAMBRIDGE SMELTING CO. Adv Pg 116	**100 Pacific St. Cambridge**	**Mass**
Chemical Commerce	166 Clifford St. Newark 5	NJ
Climax Molybdenum Co. Div. Amer. Metal Climax, Inc.	1270 Ave. of the Americas, New York 20	NY
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W. Montreal, Que Can	
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Devcon Corp.	Endicott St. Danvers	Mass
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Edlow Lead Co.	729 Bank St. Columbus 16	Ohio
Enthoven & Sons, Ltd., H. J.	South Pl. London, EC2, England	
Ethyl Corp.	100 Park Ave. New York 17	NY
KELLEY & CO., O. G. Adv Pg 30	**98 Taylor St. Boston 22**	**Mass**
LEAD PRODUCTS, INC. Adv Pg 116	**Hartford Rd. Manchester**	**Conn**
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
NATIONAL LEAD CO. Adv. Pgs. 134,135	**111 Broadway, New York 6**	**NY**
NUCLEAD, INC. Adv Pg 116	**110 Pacific St. Cambridge**	**Mass**
Ohio Semiconductors, Inc.	1205 Chesapeake Ave. Columbus 12	Ohio
PICKER X-RAY CORP. Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Radiation Products, Inc.	Ft. 40 Rd. Flushing 52	NY
RAY-PROOF CORP. Adv Pg 276	**843 Canal St. Stamford**	**Conn**
RELIANCE INCORPORATED, Adv Pg 261	**1210-1212 Adams Ave. Phila 24**	**Pa**
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
Southern Lead Rolling Co.	Box 6195, Dallas 22	Tex
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
VIENER & SONS, HYMAN, Adv Pg 262	**5300 Hatcher St. Box 573, Richmond 5**	**Va**
Water Associates	45 Franklin St. Framingham	Mass

LITHIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alvares Terner Corp.	233 Broadway, New York 7	NY
American Potash & Chem. Corp.	99 Park Ave. New York 16	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Barium & Chemicals, Inc.	4043 Erie St. Willoughby	Ohio
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Fine Chemical Co.	250 W 57th St. New York 19	NY
Foote Mineral Co.	18 W Chelten Ave. Phila 44	Pa
Kawecki Chemical Co. Inc.	220 E 42nd St. New York	NY
Lithium Corp. of America, Inc.	60 E 42 St. New York 17	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	**5 New St. White Plains**	**NY**
Nuclear Fuels & Rare Metals Corp.	817 E 18th St. LA 21	Cal
PECHINEY, Adv Pg 105	**23 Rue Balzac, Paris, Seine, France**	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
Water Associates	45 Franklin St. Framingham	Mass

MAGNESIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY

AMERICAN SMELTING & REFINING CO.		
Adv Pg 125	120 Broadway, New York 5	NY
Anaconda Co.	25 Broadway, New York 4	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Dow Chemical Co.	Midland	Mich
Kawecki Chemical Co, Inc.	220 E 42nd St, New York	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts, St. Louis 7	Mo
Nelco Metals, Inc.	Canaan	Conn
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	Saxonburg Blvd. Saxonburg	Pa
STE ELECTRO-METALLURGIQUE DU PLANET, Adv Pg 276L	9 Rue Chauchat, Paris 9, France	
Ugine	10 rue du General Foy, Paris 8, France	
Vanadium Corp. of America	420 Lexington Ave. New York 17	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
Water Associates	45 Franklin St, Framingham	Mass

MAGNESIUM OXIDE – LOW BORON CONTENT

Basic, Inc.	845 Hanna Bldg, Cleveland 14	Ohio
International Minerals & Chemical Corp.	Old Orchard Rd, Skokie	Ill
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
National Beryllia Corp.	4501 Dell Ave, North Bergen	NJ
Norton Co.	1 New Bond St. Worcester 6	Mass
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	Saxonburg Blvd. Saxonburg	Pa
Thermal Refractories Corp.	4501 Dell Ave. North Bergen	NJ
Water Associates	45 Franklin St, Framingham	Mass

MANGANESE

Anaconda Co.	25 Broadway, New York 4	NY
Barium & Chemicals, Inc.	4043 Erie St, Willoughby	Ohio
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Chicago Development Corp.	5810 47th Ave. Riverdale	Md
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Foote Mineral Co.	18 W Chelten Ave, Phila 44	Pa
Kulite Tungsten Co.	1040 Hoyt Ave, Ridgefield	NJ
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
RELIANCE INCORPORATED, Adv Pg 261	1210-1212 Adams Ave. Phila 24	Pa
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Ugine	10 rue du General Foy, Paris 8, France	
Union Carbide Metals Co. Div. UCC	270 Park Ave, New York 17	NY
Vanadium Corp. of America	420 Lexington Ave. New York 17	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
Water Associates	45 Franklin St, Framingham	Mass

MERCURY

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Degussa	Frankfurt/Main, Germany	
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Fine Chemical Co.	250 W 57th St, New York 19	NY
Hill Co., C. R.	35 W Grand River, Detroit 26	Mich
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts, St. Louis 7	Mo
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
Noralr, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VIENER & SONS, HYMAN, Adv Pg 263	5300 Hatcher St. Box 573, Richmond 5	Va
Wood Ridge Chemical Corp.	Park Pl, E. Wood Ridge	NJ

MOLYBDENUM

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Amco Research, Inc.	1270 Ave of the Americas, New York 20	NY
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Associated Engng. & Mfg. Corp.	210 Stonehouse Rd. Glen Ridge	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Cross Co., H.	3229 Bergenline Ave. Union City	NJ
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Eisler Engineering Co.	765 S 13th St. Newark 3	NJ
Electro-Thermal Industries, Inc.	57 S Main St, Pearl River	NY
Engelhard Industries, Inc.	113 Astor St, Newark 2	NJ
Fansteel Metallurgical Corp.	North Chicago	Ill
Firth Sterling Inc.	3113 Forbes Ave. Pittsburgh 30	Pa
General Electric Co. Lamp Metals & Components Dept.	21800 Tungsten Rd. Cleveland 17	Ohio
HARVEY ALUMINUM, Adv Pg 93	19200 S Western Ave. Torrance	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Kulite Tungsten Co.	1040 Hoyt Ave, Ridgefield	NJ
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallory & Co., Inc, P. R.	3029 E Washington St, Indnpls, 6	Ind
Maryland Alloys Corp.	5245 Fairlawn Ave, Baltimore 15	Md
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
Molybdenum Corp. of America	375 Park Ave, New York 22	NY
Nuclear Fuels & Rare Metals Corp.	817 E 18th St, LA 21	Cal
Nuclear Metals, Inc.	Box 222 Concord	Mass
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Reactive Metals Inc. Sub. Natl. Distillers & Chem Corp.	Niles	Ohio
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Shattuck Chemical Co., S. W.	1805 S Bannock St. Denver 23	Colo
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Universal Cyclops Steel Corp.	Bridgeville	Pa
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
Westinghouse Elec Corp, Materials Mfg.	Blairsville	Pa
WOLVERINE TUBE DIV. CALUMET & HECLA, INC. Adv Pg 91	17260 Southfield Rd. Allen Park	Mich

MOLYBDENUM RIBBON

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
American Silver Co. Inc.	36-07 Prince St, Flushing 54	NY
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Associated Engng. & Mfg. Corp.	210 Stonehouse Rd. Glen Ridge	NJ
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cross Co., H.	3229 Bergenline Ave. Union City	NJ
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Eisler Engineering Co.	765 S 13th St. Newark 3	NJ
Fansteel Metallurgical Corp.	North Chicago	Ill
General Electric Co. Lamp Metals & Components Dept.	21800 Tungsten Rd. Cleveland 17	Ohio
Kulite Tungsten Co.	1040 Hoyt Ave, Ridgefield	NJ
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
Western Gold & Platinum Co.	525 Harbor Blvd, Belmont	Cal
Westinghouse Elec Corp, Materials Mfg.	Blairsville	Pa

NICKEL

Alloy Metal Sales Ltd.	215 Lakeshore Blvd. E, Toronto 2, Can	
Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
American Silver Co. Inc.	36-07 Prince St, Flushing 54	NY
AMERICAN SMELTING & REFINING CO. Adv Pg 125	120 Broadway, New York 5	NY
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anchor Metal Co. Inc.	966 Meeker Ave, Brooklyn 22	NY
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Birkett, Billington & Newton Ltd., T. M.	Etruria Rd, Hanley, Stoke-on-Trent, Staffs, England	
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chromium Corporation of America	Box 1229, Waterbury 20	Conn
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Driver Co., Wilbur B.	1875 McCarter Hwy, Newark 4	NJ
Driver-Harris Co.	Harrison	NJ
Flowline Corp.	New Castle	Pa
Foote Mineral Co.	18 W Chelten Ave, Phila 44	Pa
General Alloys Co.	400 W 1st St, Boston 27	Mass
International Nickel Co, Inc.	67 Wall St, New York 5	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Metal Hydrides, Inc.	12-24 Congress St, Beverly	Mass

Metal & Thermit Corp.	Rahway Ave, Rahway	NJ
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
NATIONAL LEAD CO. Adv. Pgs. 134,135	**111 Broadway, New York 6**	**NY**
RELIANCE INCORPORATED, Adv Pg 261	**1210-1212 Adams Ave. Phila 24**	**Pa**
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	**116 Broad St. New York 4**	**NY**
Water Associates	45 Franklin St, Framingham	Mass

NICKEL ALLOYS

Allegheny Ludlum Steel Corp.	Oliver Bldg. Pittsburgh 22	Pa
Alloy Metal Sales Ltd.	215 Lakeshore Blvd. E, Toronto 2, Can	
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
AMERICAN SMELTING & REFINING CO.		
Adv Pg 125	**120 Broadway, New York 5**	**NY**
Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Avondale Shipyards, Inc.	Box 1030, New Orleans 8	La
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Birkett, Billington & Newton Ltd., T. M.	Etruria Rd. Hanley, Stoke-on-Trent, Staffs. England	
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Bridgeport Brass Co.	30 Grand St. Bridgeport 2	Conn
Carpenter Steel Co.	607 Washington St. Reading	Pa
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Davidson Steel Corp.	444 Madison Ave. New York 22	NY
Dewrance & Co., Ltd.	Great Dover St. London SE1, England	
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Driver Co., Wilbur B.	1875 McCarter Hwy. Newark 4	NJ
Driver-Harris Co.	Harrison	NJ
Flowline Corp.	New Castle	Pa
General Alloys Co.	400 W 1st St. Boston 27	Mass
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
Haynes Stellite Co. Div. UCC	1020 W Park Ave. Kokomo	Ind
International Nickel Co. Inc.	67 Wall St. New York 5	NY
Kelsey-Hayes Co.	New Hartford	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MAGNETIC SHIELD DIV. PERFECTION MICA CO.		
Adv Pg 254	**1322 N Elston Ave. Chicago 22**	**Ill**
Metal Hydrides, Inc.	12-24 Congress St. Beverly	Mass
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
National Forge Co.	10 Front St. Irvine, Warren County	Pa
RELIANCE INCORPORATED, Adv Pg 261	**1210-1212 Adams Ave. Phila 24**	**Pa**
SANDUSKY FOUNDRY & MACHINE CO.		
Adv Pg 94	**W Market St. Sandusky**	**Ohio**
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Shieldalloy Corp.	Newfield	NJ
Superior Steel Div. Copperweld Steel Co.	Carnegie	Pa
Tetra Engineering Co., Ltd.	North End Rd. Wembley, Middx. Eng.	
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
Universal Cyclops Steel Corp.	Bridgeville	Pa
Wallingford Steel Co.	80 Valley St. Wallingford	Conn
Westinghouse Elec Corp. Materials Mfg.	Blairsville	Pa
WOLVERINE TUBE DIV. CALUMET & HECLA, INC.		
Adv Pg 91	**17260 Southfield Rd. Allen Park**	**Mich**

NIOBIUM (COLUMBIUM)

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Fansteel Metallurgical Corp.	North Chicago	Ill
Fine Chemical Co.	250 W 57th St. New York 19	NY
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
HARVEY ALUMINUM, Adv Pg 93	**19200 S Western Ave. Torrance**	**Cal**
Kawecki Chemical Co. Inc.	220 E 42nd St. New York	NY
Kennametal Inc.	Latrobe	Pa
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts. St. Louis 7	Mo
Molybdenum Corp. of America	375 Park Ave. New York 22	NY
Nuclear Fuels & Rare Metals Corp.	817 E 18th St. LA 21	Cal
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Paul & Stein Bros. Inc., F. H.	235 5th Ave. New York 16	NY
PECHINEY, Adv Pg 105	**23 Rue Balzac, Paris, Seine, France**	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Shieldalloy Corp.	Newfield	NJ
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	**Box 898, Attleboro**	**Mass**
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Union Carbide Metals Co. Div. UCC	270 Park Ave. New York 17	NY
Universal Cyclops Steel Corp.	Bridgeville	Pa
Vanadium Corp. of America	420 Lexington Ave. New York 17	NY
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	**116 Broad St. New York 4**	**NY**
WAH CHANG CORP. Adv Pg 221	**233 Broadway, New York 7**	**NY**
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.		
Adv. Pgs. 138, 139, 146	**Cheswick**	**Pa**
WOLVERINE TUBE DIV. CALUMET & HECLA, INC.		
Adv Pg 91	**17260 Southfield Rd. Allen Park**	**Mich**

PALLADIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bishop & Co., J., Platinum Works	Malvern	Pa
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Consolidated Reactive Metals, Inc.	115 Hoyt St. Mamaroneck	NY
Degussa	Frankfurt/Main, Germany	
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Fine Chemical Co.	250 W 57th St. New York 19	NY
Fleischman, Burd & Co. Inc.	1271 Ave. of Americas, New York 20	NY
Handy & Harman	82 Fulton St. New York 38	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallory & Co., Inc. P. R.	3029 E Washington St. Indnpls. 6	Ind
NATIONAL LEAD CO. Adv. Pgs. 134,135	**111 Broadway, New York 6**	**NY**
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	**116 Broad St. New York 4**	**NY**
Water Associates	45 Franklin St. Framingham	Mass
Western Gold & Platinum Co.	525 Harbor Blvd. Belmont	Cal

PLATINUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bishop & Co., J., Platinum Works	Malvern	Pa
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Consolidated Reactive Metals, Inc.	115 Hoyt St. Mamaroneck	NY
Degussa	Frankfurt/Main, Germany	
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Fine Chemical Co.	250 W 57th St. New York 19	NY
Fleischman, Burd & Co. Inc.	1271 Ave. of Americas, New York 20	NY
Handy & Harman	82 Fulton St. New York 38	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallory & Co., Inc. P. R.	3029 E Washington St. Indnpls. 6	Ind
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	**116 Broad St. New York 4**	**NY**
Western Gold & Platinum Co.	525 Harbor Blvd. Belmont	Cal

PLUTONIUM

Mackay, Inc., A. D.	198 Broadway, New York 38	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	**5 New St. White Plains**	**NY**
Nuclear Fuels & Rare Metals Corp.	817 E 18th St. LA 21	Cal
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn

POLONIUM

Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Canadian Radium & Uranium Corp.	630 5th Ave. New York 20	NY
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY

U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 298, Burbank	Cal
U. S. RADIUM CORP. Adv Pg 90	Box 246, Morristown	NJ
U.S. Radium Corp. (Europe)	36 Ave. Krieg, Geneva, Switzerland	

POTASSIUM

Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts. St. Louis 7	Mo
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	Saxonburg Blvd. Saxonburg	Pa
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
Water Associates	45 Franklin St. Framingham	Mass

PRASEODYMIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alvares Terner Corp.	233 Broadway, New York 7	NY
American Potash & Chem. Corp.	99 Park Ave. New York 16	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerium Metals & Alloys Div. Ronson Metals Corp.	45-65 Manufacturers Pl. Newark 5	NJ
Chemical Commerce	166 Clifford St. Newark 5	NJ
Grace & Co. W. R., Davison Chemical Div.	Pompton Plains	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	St. Louis	Mich
PECHINEY, Adv Pg 103	23 Rue Balzac, Paris, Seine, France	
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. Adv Pg 254	342 Madison Ave. New York 17	NY

RADIUM

Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Canadian Radium & Uranium Corp.	630 5th Ave. New York 20	NY
Instruments, Inc.	Box 556, Tulsa	Okla
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
RADIUM CHEMICAL CO. INC. Adv Pg 14	161 E 42nd St. New York 17	NY
Union Miniere Du Haut-Katanga	6 Rue Montagne du Parc, Brussels 1, Belg	
U. S. RADIUM CORP. Adv Pg 90	Box 246, Morristown	NJ
U.S. Radium Corp. (Europe)	36 Ave. Krieg, Geneva, Switzerland	

RHENIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Anaconda Co.	25 Broadway, New York 4	NY
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Chemical Commerce	166 Clifford St. Newark 5	NJ
Degussa	Frankfurt/Main, Germany	
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Fine Chemical Co.	250 W 57th St. New York 19	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
Union Miniere Du Haut-Katanga	6 Rue Montagne du Parc, Brussels 1, Belg	
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY

SAMARIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alvares Terner Corp.	233 Broadway, New York 7	NY
American Potash & Chem. Corp.	99 Park Ave. New York 16	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerium Metals & Alloys Div. Ronson Metals Corp.	45-65 Manufacturers Pl. Newark 5	NJ
Chemical Commerce	166 Clifford St. Newark 5	NJ
Fine Chemical Co.	250 W 57th St. New York 19	NY
Grace & Co. W.R., Davison Chemical Div.	Pompton Plains	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	St. Louis	Mich
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
PECHINEY, Adv Pg 103	23 Rue Balzac, Paris, Seine, France	
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. Adv Pg 254	342 Madison Ave. New York 17	NY
VITRO CORP. OF AMERICA, Adv. Pgs. 213, 276H	361 Madison Ave. New York 36	NY

SELENIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Amco Research, Inc.	1270 Ave of the Americas, New York 20	NY
AMERICAN SMELTING & REFINING CO. Adv Pg 125	120 Broadway, New York 5	NY
Anaconda Co.	25 Broadway, New York 4	NY
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Climax Molybdenum Co. Div. Amer. Metal Climax, Inc.	1270 Ave. of the Americas, New York 20	NY
Degussa	Frankfurt/Main, Germany	
Fine Chemical Co.	250 W 57th St. New York 19	NY
Kawecki Chemical Co, Inc.	220 E 42nd St. New York	NY
Kennecott Copper Corp.	161 E 42 St. New York 17	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY

SILICON

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Degussa	Frankfurt/Main, Germany	
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Dow Corning Corp.	Midland	Mich
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Fine Chemical Co.	250 W 57th St. New York 19	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts. St. Louis 7	Mo
Monsanto Chemicals Ltd.	10/18 Victoria St. London SW1, Eng	
Nuclear Fuels & Rare Metals Corp.	817 E 18th St, LA 21	Cal
PECHINEY, Adv Pg 103	23 Rue Balzac, Paris, Seine, France	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	Saxonburg Blvd. Saxonburg	Pa
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Texas Instruments Incorporated, Semiconductor-Components Div.	Box 312, Dallas	Tex
Union Carbide Metals Co. Div. UCC	270 Park Ave. New York 17	NY
Vanadium Corp. of America	420 Lexington Ave. New York 17	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY

SILVER

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Amco Research, Inc.	1270 Ave of the Americas, New York 20	NY
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
AMERICAN SMELTING & REFINING CO. Adv Pg 125	120 Broadway, New York 5	NY
Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave, Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Climax Molybdenum Co. Div. Amer. Metal Climax, Inc.	1270 Ave. of the Americas, New York 20	NY
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W, Montreal, Que Can	
Consolidated Reactive Metals, Inc.	115 Hoyt St. Mamaroneck	NY
Degussa	Frankfurt/Main, Germany	

Devcon Corp.	Endicott St, Danvers	Mass
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Handy & Harman	82 Fulton St. New York 38	NY
Hill Co., C.R.	35 W Grand River, Detroit 26	Mich
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts. St. Louis 7	Mo
Mallory & Co., Inc, P. R.	3029 E Washington St, Indnpls, 6	Ind
NATIONAL LEAD CO. Adv. Pgs. 134,135	**111 Broadway, New York 6**	**NY**
REACTOR EXPERIMENTS, INC.		
Adv Pg 224	**1485 Bayshore Blvd. San Francisco 24**	**Cal**
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	**116 Broad St. New York 4**	**NY**
Western Gold & Platinum Co.	525 Harbor Blvd, Belmont	Cal

SILVER-CADMIUM-INDIUM

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alpha Metals, Inc.	60R Water St. Jersey City 4	NJ
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
AMERICAN SMELTING & REFINING CO.		
Adv Pg 125	**120 Broadway, New York 5**	**NY**
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co, Inc.	966 Meeker Ave, Brooklyn 22	NY
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W, Montreal, Que Can	
Consolidated Reactive Metals, Inc.	115 Hoyt St. Mamaroneck	NY
Degussa	Frankfurt/Main, Germany	
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Handy & Harman	82 Fulton St. New York 38	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	**116 Broad St. New York 4**	**NY**

SODIUM

Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Degussa	Frankfurt/Main, Germany	
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Ethyl Corp.	100 Park Ave. New York 17	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
SHOWA DENKO K. K. Adv Pg 276W	**34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan**	
Ugine	10 rue du General Foy, Paris 8, France	
U.S. Industrial Chemicals Co. Div. Natl. Distillers & Chem Corp.	99 Park Ave. New York 16	NY
Water Associates	45 Franklin St. Framingham	Mass

STEEL. CARBON

Allegheny Ludlum Steel Corp.	Oliver Bldg. Pittsburgh 22	Pa
Avondale Shipyards, Inc.	Box 1030, New Orleans 8	La
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Carpenter Steel Co.	607 Washington St. Reading	Pa
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Davidson Steel Corp.	444 Madison Ave. New York 22	NY
Devcon Corp.	Endicott St, Danvers	Mass
English Steel Corp. Ltd. River Don Wks.	Sheffield 9, Yorkshire, England	
Fox & Co Ltd, Samuel, Stocksbridge Wks	Sheffield, England	
Heppenstall Co.	Pittsburgh	Pa
Industrial Forge & Steel, Inc.	1501 Allen Ave, SE, Canton	Ohio
Ingersoll Steel Div. Borg-Warner Corp.	New Castle	Ind
Jones & Laughlin Steel Corp.	3 Gateway Center, Pittsburgh 30	Pa
Kayser Ellison & Co. Ltd. Carlisle Steel Wks.	Sheffield, 4, England	
Lukens Steel Co.	401 Lukens Bldg. Coatesville	Pa
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Metal Diffusions Ltd.	292 Worton Rd. Isleworth, Middx. Eng	
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
National Forge Co.	10 Front St. Irvine, Warren County	Pa
National Steel Corp. Weirton Steel Div.	Box 431, Weirton	W Va
North British Steel Foundry Ltd.	Bathgate, W Lothian, Scotland	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PHOENIX-RHEINROHR AG, Adv Pg 276K	**August-Thyssen-Str. 1, Dusseldorf, Ger**	
Reactive Metals Inc. Sub. Natl. Distillers & Chem Corp.	Niles	Ohio
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
Ryerson & Son, Inc., Jos. T.	16 & Rockwell Sts. Chicago 8	Ill
S. I. A. C. Adv Pg 276T	**Via S. Sebastiano 2, Genoa, Italy**	
SANDUSKY FOUNDRY & MACHINE CO.		
Adv Pg 94	**W Market St. Sandusky**	**Ohio**
Superior Steel Div. Copperweld Steel Co.	Carnegie	Pa
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
Ugine	10 rue du General Foy, Paris 8, France	
Union Steel Corp.	1550 Ashwood Terr. Union	NJ
U S PIPE & FOUNDRY CO. STEEL & TUBES DIV.		
Adv. Pgs. 18, 19	**Burlington**	**NJ**
U. S. STEEL CORP. Adv. Pgs. 56, 57	**525 Wm. Penn Pl. Pittsburgh 30**	**Pa**
Wisconsin Centrifugal Foundry, Inc.	905 E St, Paul Ave. Waukesha	Wis

STEEL. STAINLESS

Allegheny Ludlum Steel Corp.	Oliver Bldg. Pittsburgh 22	Pa
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
Avondale Shipyards, Inc.	Box 1030, New Orleans 8	La
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Caird Ltd., Francis	Africa House, Kingsway, London WC 2, Eng	
CARLSON INC., G. O. Adv Pgs. 20, 21	**Thorndale**	**Pa**
Carpenter Steel Co.	607 Washington St. Reading	Pa
Chase Brass & Copper Co.	236 Grand St, Waterbury	Conn
Cooper Alloy Corp.	Bloy St.-Ramsey Av. Hillside	NJ
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Davidson Steel Corp.	444 Madison Ave. New York 22	NY
Devcon Corp.	Endicott St, Danvers	Mass
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Driver Co., Wilbur B.	1875 McCarter Hwy. Newark 4	NJ
Fine Chemical Co.	250 W 57th St. New York 19	NY
Flowline Corp.	New Castle	Pa
Fox & Co Ltd, Samuel, Stocksbridge Wks	Sheffield, England	
General Alloys Co.	400 W 1st St, Boston 27	Mass
General Astrometals Corp.	320 Yonkers Ave, Yonkers 2	NY
Heppenstall Co.	Pittsburgh	Pa
Industrial Forge & Steel, Inc.	1501 Allen Ave, SE, Canton	Ohio
Ingersoll Steel Div, Borg-Warner Corp.	New Castle	Ind
Jones & Laughlin Steel Corp.	3 Gateway Center, Pittsburgh 30	Pa
Kayser Ellison & Co. Ltd. Carlisle Steel Wks.	Sheffield, 4, England	
KELLEY & CO., O. G. Adv Pg 30	**98 Taylor St. Boston 22**	**Mass**
Lukens Steel Co.	401 Lukens Bldg. Coatesville	Pa
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
National Forge Co.	10 Front St. Irvine, Warren County	Pa
PHOENIX-RHEINROHR AG, Adv Pg 276K	**August-Thyssen-Str. 1, Dusseldorf, Ger**	
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
Ryerson & Son, Inc., Jos. T.	16 & Rockwell Sts. Chicago 8	Ill
S. I. A. C. Adv Pg 276T	**Via S. Sebastiano 2, Genoa, Italy**	
SANDUSKY FOUNDRY & MACHINE CO.		
Adv Pg 94	**W Market St. Sandusky**	**Ohio**
Superior Steel Div. Copperweld Steel Co.	Carnegie	Pa
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary).		
Adv Pg 2	**Box 898, Attleboro**	**Mass**
Ugine	10 rue du General Foy, Paris 8, France	
Union Steel Corp.	1550 Ashwood Terr. Union	NJ
U S PIPE & FOUNDRY CO. STEEL & TUBES DIV.		
Adv. Pgs. 18, 19	**Burlington**	**NJ**
U. S. STEEL CORP. Adv. Pgs. 56, 57	**525 Wm. Penn Pl. Pittsburgh 30**	**Pa**
Universal Cyclops Steel Corp.	Bridgeville	Pa
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	**116 Broad St. New York 4**	**NY**
Wallingford Steel Co.	80 Valley St. Wallingford	Conn
Wisconsin Centrifugal Foundry, Inc.	905 E St, Paul Ave. Waukesha	Wis

STRONTIUM

Barium & Chemicals, Inc.	4043 Erie St. Willoughby	Ohio
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Cooper Metallurgical Associates	Box 3991, Cleveland 20	Ohio
Degussa	Frankfurt/Main, Germany	
King Laboratories, Inc.	127 Solar St, Syracuse 3	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Nuclear Fuels & Rare Metals Corp.	817 E 18th St. LA 21	Cal
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
STE ELECTRO-METALLURGIQUE DU PLANET,		
Adv Pg 276L	**9 Rue Chauchat, Paris 9, France**	

VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
Water Associates	45 Franklin St, Framingham	Mass

TANTALUM

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
American Silver Co. Inc.	36-07 Prince St, Flushing 54	NY
Anchor Metal Co, Inc.	966 Meeker Ave, Brooklyn 22	NY
Associated Engrg. & Mfg. Corp.	210 Stonehouse Rd, Glen Ridge	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave, Philadelphia 26	Pa
Bridgeport Brass Co.	30 Grand St, Bridgeport 2	Conn
Chemical Commerce	166 Clifford St, Newark 5	NJ
Cross Co., H.	3229 Bergenline Ave, Union City	NJ
Doran Co., A. V.	950 Francis Pl, St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Fansteel Metallurgical Corp.	North Chicago	Ill
Fine Chemical Co.	250 W 57th St, New York 19	NY
Firth Sterling Inc.	3113 Forbes Ave, Pittsburgh 30	Pa
HARVEY ALUMINUM, Adv Pg 93	19200 S Western Ave, Torrance	Cal
Haynes Stellite Co, Div, UCC	1020 W Park Ave; Kokomo	Ind
Kawecki Chemical Co, Inc.	220 E 42nd St, New York	NY
Kennametal Inc.	Latrobe	Pa
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts, St. Louis 7	Mo
Maryland Alloys Corp.	5945 Fairlawn Ave, Baltimore 15	Md
Metallizing Equipment Co, Ltd.	Chobham, Woking, Surrey, England	
National Research Corp, Metals Div.	70 Memorial Dr, Cambridge 42	Mass
Nuclear Metals, Inc.	Box 222 Concord	Mass
Paul & Stein Bros. Inc., F. H.	235 5th Ave, New York 16	NY
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Shieldalloy Corp.	Newfield	NJ
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
Union Carbide Metals Co, Div, UCC	270 Park Ave, New York 17	NY
Universal Cyclops Steel Corp.	Bridgeville	Pa
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
Water Associates	45 Franklin St, Framingham	Mass
Westinghouse Elec Corp, Materials Mfg.	Blairsville	Pa
WOLVERINE TUBE DIV. CALUMET & HECLA, INC. Adv Pg 91	17260 Southfield Rd. Allen Park	Mich

THORIUM

Alvarez Turner Corp.	233 Broadway, New York 7	NY
American Potash & Chem. Corp.	99 Park Ave, New York 16	NY
Anchor Metal Co, Inc.	966 Meeker Ave, Brooklyn 22	NY
Associated Engrg. & Mfg. Corp.	210 Stonehouse Rd, Glen Ridge	NJ
Cerium Metals & Alloys Div, Ronson Metals Corp.	45-55 Manufacturers Pl, Newark 5	NJ
Fine Chemical Co.	250 W 57th St, New York 19	NY
GRACE & CO. W. R., DAVISON CHEMICAL DIV. Adv Pg 51	Erwin	Tenn
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Metal Hydrides, Inc.	12-24 Congress St, Beverly	Mass
New Metals & Chemicals Ltd.	Chancery Ln, London, WC2, England	
Nuclear Fuels & Rare Metals Corp.	817 E 18th St, LA 21	Cal
Nukem, GmbH	Wolfgang bei Hanau/Main, Germany	
Olin Mathieson Chemical Corp, Nuclear Fuels Oper.	275 Winchester Ave, New Haven	Conn
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
RIO TINTO MINING CO. OF CANADA LTD. Adv Pg 108	335 Bay St. Toronto, Ont Canada	
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
Techmanix Corp.	76 W 6th S, Salt Lake City	Utah
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary). Adv Pg 2	Box 898, Attleboro	Mass
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. Adv Pg 254	342 Madison Ave. New York 17	NY

TIN

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Alpha Metals, Inc.	60R Water St, Jersey City 4	NJ
American Silver Co. Inc.	36-07 Prince St, Flushing 54	NY
AMERICAN SMELTING & REFINING CO. Adv Pg 125	120 Broadway, New York 5	NY
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Anchor Metal Co, Inc.	966 Meeker Ave, Brooklyn 22	NY
Baker Chemical Co., J. T.	Phillipsburg	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Birkett, Billington & Newton Ltd., T. M.	Etruria Rd, Hanley, Stoke-on-Trent, Staffs, England	
CAMBRIDGE SMELTING CO. Adv Pg 116	100 Pacific St. Cambridge	Mass
Climax Molybdenum Co, Div, Amer. Metal Climax, Inc.	1270 Ave, of the Americas, New York 20	NY
Consolidated Mining & Smelting Co, of Canada Ltd.	215 St, James St, W, Montreal, Que Can	
Division Lead Co.	7742 W 61st Pl, Summit	Ill
Enthoven & Sons, Ltd., H. J.	South Pl, London, EC2, England	
LEAD PRODUCTS, INC. Adv Pg 116	Hartford Rd. Manchester	Conn
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts, St, Louis 7	Mo
Metallizing Equipment Co, Ltd.	Chobham, Woking, Surrey, England	
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
NUCLEAD, INC. Adv Pg 116	110 Pacific St. Cambridge	Mass
RELIANCE INCORPORATED, Adv Pg 261	1210-1212 Adams Ave. Phila 24	Pa
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Southern Lead Rolling Co.	Box 6195, Dallas 29	Tex
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VIENER & SONS, HYMAN, Adv Pg 262	5300 Hatcher St. Box 573, Richmond 5	Va
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY

TITANIUM

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
American Silver Co. Inc.	36-07 Prince St, Flushing 54	NY
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Atlas Titanium, Ltd.	Centre St, Welland, Ontario, Canada	
Bart Labs. & Design Inc.	125 Manchester Pl, Newark 4	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave, Philadelphia 26	Pa
Chemical Commerce	166 Clifford St, Newark 5	NJ
Chicago Development Corp.	5810 47th Ave. Riverdale	Md
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Engelhard Industries, Inc.	113 Astor St, Newark 2	NJ
Foote Mineral Co.	18 W Chelten Ave, Phila 44	Pa
HARVEY ALUMINUM, Adv Pg 93	19200 S Western Ave. Torrance	Cal
Industrial Forge & Steel, Inc.	1501 Allen Ave, SE, Canton	Ohio
Kawecki Chemical Co, Inc.	220 E 42nd St, New York	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Metal Hydrides, Inc.	12-24 Congress St, Beverly	Mass
Metallizing Equipment Co, Ltd.	Chobham, Woking, Surrey, England	
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
Nuclear Metals, Inc.	Box 222 Concord	Mass
Oregon Metallurgical Corp.	Box 484, Albany	Ore
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Reactive Metals Inc, Sub, Natl. Distillers & Chem Corp.	Niles	Ohio
Republic Steel Corp.	Republic Bldg, Cleveland 1	Ohio
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Shieldalloy Corp.	Newfield	NJ
Superior Steel Div, Copperweld Steel Co.	Carnegie	Pa
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
Titanium Metals Corp, of America	233 Broadway New York 7	NY
Ugine	10 rue du General Foy, Paris 8, France	
Union Carbide Metals Co, Div, UCC	270 Park Ave, New York 17	NY
Vanadium Corp. of America	420 Lexington Ave, New York 17	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
Water Associates	45 Franklin St, Framingham	Mass
WOLVERINE TUBE DIV. CALUMET & HECLA, INC. Adv Pg 91	17260 Southfield Rd. Allen Park	Mich

TUNGSTEN

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Amco Research, Inc.	1270 Ave of the Americas, New York 20	NY
Ames Metal Products Co.	4323 S Western Ave, Chicago	Ill
Associated Engrg. & Mfg. Corp.	210 Stonehouse Rd, Glen Ridge	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Chemical Commerce	166 Clifford St. Newark 5	NJ
Climax Molybdenum Co, Div, Amer. Metal Climax, Inc.	1270 Ave, of the Americas, New York 20	NY
Cross Co., H.	3229 Bergenline Ave. Union City	NJ
Doran Co., A. V.	950 Francis Pl, St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Eisler Engineering Co.	765 S 13th St. Newark 3	NJ
Electro-Thermal Industries, Inc.	57 S Main St, Pearl River	NY
Engelhard Industries, Inc.	113 Astor St, Newark 2	NJ
Fansteel Metallurgical Corp.	North Chicago	Ill
Fine Chemical Co.	250 W 57th St, New York 19	NY
Firth Sterling Inc.	3113 Forbes Ave. Pittsburgh 30	Pa

General Electric Co. Lamp Metals & Components Dept.	21800 Tungsten Rd. Cleveland 17	Ohio
Kennametal Inc.	Latrobe	Pa
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Kulite Tungsten Co.	1040 Hoyt Ave, Ridgefield	NJ
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallory & Co., Inc, P. R.	3029 E Washington St, Indnpls, 6	Ind
Maryland Alloys Corp.	5245 Fairlawn Ave, Baltimore 15	Md
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
Molybdenum Corp. of America	375 Park Ave, New York 22	NY
Nuclear Metals, Inc.	Box 222 Concord	Mass
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Reactive Metals Inc. Sub. Natl. Distillers & Chem Corp.	Niles	Ohio
Semi-Alloys Inc.	550 S. Fulton Ave. Mt. Vernon	NY
Shattuck Chemical Co., S. W.	1805 S Bannock St. Denver 23	Colo
Shieldalloy Corp.	Newfield	NJ
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Union Carbide Metals Co. Div. UCC	270 Park Ave. New York 17	NY
Universal Cyclops Steel Corp.	Bridgeville	Pa
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
Water Associates	45 Franklin St, Framingham	Mass

TUNGSTEN RIBBON

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Associated Engrg. & Mfg. Corp.	210 Stonehouse Rd. Glen Ridge	NJ
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cross Co., H.	3229 Bergenline Ave. Union City	NJ
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Eisler Engineering Co.	765 S 13th St. Newark 3	NJ
General Electric Co. Lamp Metals & Components Dept.	21800 Tungsten Rd. Cleveland 17	Ohio
Kulite Tungsten Co.	1040 Hoyt Ave, Ridgefield	NJ
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-Cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY

URANIUM CARBIDE

American Metal Products Co.	5959 Linsdale Ave. Detroit 4	Mich
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GRACE & CO. W. R., DAVISON CHEMICAL DIV. Adv Pg 51	Erwin	Tenn
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MALLINCKRODT NUCLEAR CORP. Adv Pg 29	2nd & Mallinckrodt Sts. St. Louis 7	Mo
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Semi-Alloys Inc.	550 S. Fulton Ave. Mt. Vernon	NY
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
SPENCER CHEMICAL CO. Adv Pg 88	500 Dwight Bldg. Kansas City 5	Mo
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. Adv Pg 254	342 Madison Ave. New York 17	NY
VITRO CORP. OF AMERICA, Adv. Pgs. 213, 276H	261 Madison Ave. New York 36	NY

URANIUM-DEPLETED

American Metal Products Co.	5959 Linsdale Ave. Detroit 4	Mich
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Fine Chemical Co.	250 W 57th St, New York 19	NY
GRACE & CO. W. R., DAVISON CHEMICAL DIV. Adv Pg 51	Erwin	Tenn
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MALLINCKRODT NUCLEAR CORP. Adv Pg 29	2nd & Mallinckrodt Sts. St. Louis 7	Mo
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Shattuck Chemical Co., S. W.	1805 S Bannock St. Denver 23	Colo
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	Cheswick	Pa

URANIUM DIOXIDE

American Metal Products Co.	5959 Linsdale Ave. Detroit 4	Mich
Denison Mines Ltd.	360 Bay St. Toronto 1, Canada	
GRACE & CO. W. R., DAVISON CHEMICAL DIV. Adv Pg 51	Erwin	Tenn
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MALLINCKRODT NUCLEAR CORP. Adv Pg 29	2nd & Mallinckrodt Sts. St. Louis 7	Mo
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
RIO TINTO MINING CO. OF CANADA LTD. Adv Pg 108	335 Bay St. Toronto, Ont Canada	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Shattuck Chemical Co., S. W.	1805 S Bannock St. Denver 23	Colo
SPENCER CHEMICAL CO. Adv Pg 88	500 Dwight Bldg. Kansas City 5	Mo
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
Union Miniere Du Haut-Katanga	6 Rue Montagne du Parc, Brussels 1, Belg	
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	Cheswick	Pa

URANIUM DISPERSIONS

American Metal Products Co.	5959 Linsdale Ave. Detroit 4	Mich
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GRACE & CO. W. R., DAVISON CHEMICAL DIV. Adv Pg 51	Erwin	Tenn
MALLINCKRODT NUCLEAR CORP. Adv Pg 29	2nd & Mallinckrodt Sts. St. Louis 7	Mo
Metal Diffusions Ltd.	292 Worton Rd. Isleworth, Mddx. Eng	
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd, Bayside	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	Cheswick	Pa

URANIUM-ENRICHED

American Metal Products Co.	5959 Linsdale Ave. Detroit 4	Mich
GRACE & CO. W. R., DAVISON CHEMICAL DIV. Adv Pg 51	Erwin	Tenn
MALLINCKRODT NUCLEAR CORP. Adv Pg 29	2nd & Mallinckrodt Sts. St. Louis 7	Mo
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
SPENCER CHEMICAL CO. Adv Pg 88	500 Dwight Bldg. Kansas City 5	Mo
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass

Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.		
Adv. Pgs. 138, 139, 144	Cheswick	Pa

URANIUM–NATURAL

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
American Metal Products Co.	5959 Lindsdale Ave. Detroit 4	Mich
Anaconda Co.	25 Broadway, New York 4	NY
Climax Molybdenum Co. Div. Amer. Metal Climax, Inc.	1270 Ave. of the Americas, New York 20	NY
Denison Mines Ltd.	360 Bay St. Toronto 1, Canada	
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
MALLINCKRODT NUCLEAR CORP.		
Adv Pg 29	2nd & Mallinckrodt Sts. St. Louis 7	Mo
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Oregon Metallurgical Corp.	Box 484, Albany	Ore
REACTOR EXPERIMENTS, INC.		
Adv Pg 224	1485 Bayshore Blvd. San Francisco 24	Cal
RIO TINTO MINING CO. OF CANADA LTD.		
Adv Pg 108	335 Bay St. Toronto, Ont Canada	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Shattuck Chemical Co., S. W.	1805 S Bannock St. Denver 23	Colo
SPENCER CHEMICAL CO. Adv Pg 88	300 Dwight Bldg. Kansas City 5	Mo
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 898, Attleboro	Mass
Union Miniere Du Haut-Katanga	6 Rue Montagne du Parc, Brussels 1, Belg	
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. Adv Pg 234	342 Madison Ave. New York 17	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.		
Adv. Pgs. 138, 139, 144	Cheswick	Pa

VANADIUM

Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Electro-Thermal Industries, Inc.	57 S Main St, Pearl River	NY
Fine Chemical Co.	250 W 57th St, New York 19	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Nuclear Fuels & Rare Metals Corp.	817 E 18th St. LA 21	Cal
Nuclear Metals, Inc.	Box 222 Concord	Mass
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Shattuck Chemical Co., S. W.	1805 S Bannock St. Denver 23	Colo
Shieldalloy Corp.	Newfield	NJ
Union Carbide Metals Co. Div. UCC	270 Park Ave. New York 17	NY
Vanadium Corp. of America	420 Lexington Ave. New York 17	NY
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY
Water Associates	45 Franklin St. Framingham	Mass
WOLVERINE TUBE DIV. CALUMET & HECLA, INC.		
Adv Pg 91	17360 Southfield Rd. Allen Park	Mich
Wood Ridge Chemical Corp.	Park Pl. E, Wood Ridge	NJ

ZINC

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Amco Research, Inc.	1270 Ave of the Americas, New York 20	NY
AMERICAN SMELTING & REFINING CO.		
Adv Pg 125	120 Broadway, New York 5	NY
Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Anaconda Co.	25 Broadway, New York 4	NY
Anchor Metal Co. Inc.	966 Meeker Ave. Brooklyn 22	NY
Baker Chemical Co., J. T.	Phillipsburg	NJ
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Birkett, Billington & Newton Ltd., T. M.	Etruria Rd. Hanley, Stoke-on-Trent, Staffs, England	
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Climax Molybdenum Co. Div. Amer. Metal Climax, Inc.	1270 Ave. of the Americas, New York 20	NY
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W, Montreal, Que Can	
Eagle-Picher Co.	American Bldg. Cincinnati	Ohio
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallinckrodt Chemical Works	2nd & Mallinckrodt Sts. St. Louis 7	Mo
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
RELIANCE INCORPORATED, Adv Pg 261	1210-1212 Adams Ave. Phila 24	Pa
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	Saxonburg Blvd. Saxonburg	Pa
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY
VIENER & SONS, HYMAN		
Adv Pg 242	5300 Hatcher St. Box 573, Richmond 5	Va

ZIRCALOY

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Allegheny Ludlum Steel Corp.	Oliver Bldg. Pittsburgh 22	Pa
Alloy Metal Sales Ltd.	215 Lakeshore Blvd. E, Toronto 2, Can	
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Bridgeport Brass Co.	30 Grand St. Bridgeport 2	Conn
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Columbia National Corp.	1 Gateway Center, Pittsburgh	Pa
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
General Electric Co. Metallurgical Prods Dept.	11139 E 8 Mile Blvd. Detroit 32	Mich
HARVEY ALUMINUM, Adv Pg 93	19200 S Western Ave. Torrance	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Maryland Alloys Corp.	5245 Fairlawn Ave. Baltimore 15	Md
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
Nuclear Metals, Inc.	Box 222 Concord	Mass
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Paul & Stein Bros. Inc., F. H.	235 5th Ave. New York 16	NY
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Reactive Metals Inc. Sub. Natl. Distillers & Chem Corp.	Niles	Ohio
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Superior Steel Div. Copperweld Steel Co.	Carnegie	Pa
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 898, Attleboro	Mass
Westinghouse Elec Corp. Materials Mfg.	Blairsville	Pa

ZIRCONIUM

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Allegheny Ludlum Steel Corp.	Oliver Bldg. Pittsburgh 22	Pa
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
Atlas Titanium, Ltd.	Centre St. Welland, Ontario, Canada	
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Bridgeport Brass Co.	30 Grand St. Bridgeport 2	Conn
Carborundum Metals Co.	Akron	NY
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Chemical Commerce	186 Clifford St. Newark 5	NJ
Columbia National Corp.	1 Gateway Center, Pittsburgh	Pa
Cross Co., H.	3229 Bergenline Ave. Union City	NJ
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Fine Chemical Co.	250 W 57th St. New York 19	NY
Foote Mineral Co.	18 W Chelten Ave. Phila 44	Pa
HARVEY ALUMINUM, Adv Pg 93	19200 S Western Ave. Torrance	Cal
Kawecki Chemical Co. Inc.	220 E 42nd St. New York	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Maryland Alloys Corp.	5245 Fairlawn Ave. Baltimore 15	Md
Metal Hydrides, Inc.	12-24 Congress St. Beverly	Mass
Metal & Thermit Corp.	Rahway Ave. Rahway	NJ
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
Nuclear Fuels & Rare Metals Corp.	817 E 18th St. LA 21	Cal
Nuclear Metals, Inc.	Box 222 Concord	Mass
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Paul & Stein Bros. Inc., F. H.	235 5th Ave. New York 16	NY
PECHINEY, Adv Pg 105	23 Rue Balzac, Paris, Seine, France	
Pittsburgh Plate Glass Co.	632 Fort Duquesne Blvd. Pittsburgh 22	Pa
Reactive Metals Inc. Sub. Natl. Distillers & Chem Corp.	Niles	Ohio
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Superior Steel Div. Copperweld Steel Co.	Carnegie	Pa
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 898, Attleboro	Mass
Ugine	10 rue du General Foy, Paris 8, France	
VAR-LAC-OID CHEMICAL CO.		
Adv Pg 265	116 Broad St. New York 4	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
Wallingford Steel Co.	80 Valley St. Wallingford	Conn

WOLVERINE TUBE DIV. CALUMET & HECLA, INC.		
Adv Pg 91	**17260 Southfield Rd. Allen Park**	**Mich**
Wood Ridge Chemical Corp.	Park Pl, E, Wood Ridge	NJ

METALS—ALLOY, HIGH-DENSITY

Anaconda Co.	25 Broadway, New York 4	NY
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Bleiwerk Goslar GmbH	Goslar, Germany	
British Insulated Callender's Cables, Ltd.	21 Bloomsbury St, London, WC1, Eng	
Brown Ind. Ltd., David	Hampson St, Manchester, England	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
Electro-Thermal Industries, Inc.	57 S Main St, Pearl River	NY
Ethyl Corp.	100 Park Ave. New York 17	NY
Fansteel Metallurgical Corp.	North Chicago	Ill
Fine Chemical Co.	250 W 57th St, New York 19	NY
Firth Sterling Inc.	3113 Forbes Ave. Pittsburgh 30	Pa
General Astrometals Corp.	320 Yonkers Ave, Yonkers 2	NY
Handy & Harman	82 Fulton St. New York 38	NY
Haynes Stellite Co. Div. UCC	1020 W Park Ave. Kokomo	Ind
Heppenstall Co.	Pittsburgh	Pa
Ingersoll Steel Div, Borg-Warner Corp.	New Castle	Ind
International Shielding Industries	Foot of West St, Wilmington	Del
Kaiser Aluminum & Chemical Sls, Inc.	1924 Broadway, Oakland	Cal
Kennametal Inc.	Latrobe	Pa
Knapp Mills Inc.	23-15 Borden Ave, LIC	NY
Kulite Tungsten Co.	1040 Hoyt Ave, Ridgefield	NJ
Lead Fabricators, Inc.	25 Belgrove Dr. Kearny	NJ
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Mallory & Co., Inc. P. R.	3029 E Washington St, Indnpls, 6	Ind
Maryland Alloys Corp.	5245 Fairlawn Ave, Baltimore 15	Md
NATIONAL LEAD CO. Adv. Pgs. 134,135	**111 Broadway, New York 6**	**NY**
New Metals & Chemicals Ltd.	Chancery Ln, London, WC2, England	
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		**Pa**
Nuclear Metals, Inc.	Box 222 Concord	Mass
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
Oregon Metallurgical Corp.	Box 484, Albany	Ore
PACIFIC COAST ENGINEERING CO. Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
Republic Steel Corp.	Republic Bldg, Cleveland 1	Ohio
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
SANDUSKY FOUNDRY & MACHINE CO. Adv Pg 94	**W Market St. Sandusky**	**Ohio**
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	**Box 898, Attleboro**	**Mass**
Ugine	10 rue du General Foy, Paris 8, France	
U. S. STEEL CORP. Adv. Pgs. 56, 57	**525 Wm. Penn Pl. Pittsburgh 30**	**Pa**
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	**116 Broad St. New York 4**	**NY**
WAH CHANG CORP. Adv Pg 221	**233 Broadway, New York 7**	**NY**
Western Gold & Platinum Co.	525 Harbor Blvd, Belmont	Cal
Wisconsin Centrifugal Foundry, Inc.	905 E St, Paul Ave, Waukesha	Wis

METALS—LAMINATED

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
Anaconda Co.	25 Broadway, New York 4	NY
BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St. New York 17**	**NY**
BAR-RAY PRODUCTS, INC. Adv Pg 242	**209 25th St. Brooklyn 32**	**NY**
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bleiwerk Goslar GmbH	Goslar, Germany	
Bridgeport Brass Co.	30 Grand St, Bridgeport 2	Conn
BROOKS & PERKINS, INC. Adv Pg 48	**1926 W Fort St. Detroit 16**	**Mich**
Brown Ind. Ltd., David	Hampson St, Manchester, England	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Chicago Bridge & Iron Co.	332 S Michigan Ave, Chicago 4	Ill
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
General Astrometals Corp.	320 Yonkers Ave, Yonkers 2	NY
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	**Box 608, San Diego 12**	**Cal**
Handy & Harman	82 Fulton St. New York 38	NY
Ingersoll Steel Div, Borg-Warner Corp	New Castle	Ind
International Shielding Industries	Foot of West St, Wilmington	Del
Kaiser Aluminum & Chemical Sls, Inc.	1924 Broadway, Oakland	Cal
Knapp Mills Inc.	23-15 Borden Ave, LIC	NY
Lukens Steel Co.	401 Lukens Bldg, Coatesville	Pa
NATIONAL LEAD CO. Adv. Pgs. 134,135	**111 Broadway, New York 6**	**NY**
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		**Pa**
Nuclear Metals, Inc.	Box 222 Concord	Mass
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
PACIFIC COAST ENGINEERING CO. Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
Radiation Products, Inc.	Pt. 40 Rd, Flushing 52	NY
Republic Steel Corp.	Republic Bldg, Cleveland 1	Ohio
Reynolds Metals Co.	Box 2346, Richmond 18	Va
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
S. I. A. C. Adv Pg 276T	**Via S. Sebastiano 2, Genoa, Italy**	
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd, Bayside	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	**Box 898, Attleboro**	**Mass**
Ugine	10 due du General Foy, Paris 8, France	
WAH CHANG CORP. Adv Pg 221	**233 Broadway, New York 7**	**NY**

METALS—LIQUID

See Specific Metal Under METALS, ALLOYS & COMPOUNDS

METALS—POWDERED

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Alpha Metals, Inc.	60R Water St, Jersey City 4	NJ
Aluminum Co. of America	1501 Alcoa Bldg, Pittsburgh 19	Pa
Amco Research, Inc.	1270 Ave of the Americas, New York 20	NY
Antara Chemicals, Div. Gen Anil. & Film Corp.	435 Hudson St, New York 14	NY
Associated Engrg. & Mfg. Corp.	210 Stonehouse Rd, Glen Ridge	NJ
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave, Brooklyn 7	NY
Berk & Co. Ltd., F. W., Coatings Div.	Brent Cres, N Circular Rd, London NW 10, England	
Beryllium Corp.	Box 1462, Reading	Pa
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Cerium Metals & Alloys Div. Ronson Metals Corp.	45-65 Manufacturers Pl. Newark 5	NJ
Chemical Commerce	166 Clifford St, Newark 5	NJ
Chicago Development Corp.	5810 47th Ave. Riverdale	Md
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W, Montreal, Que Can	
Cooper Metallurgical Associates	Box 3991, Cleveland 20	Ohio
CRANE CO. Adv. Pgs. 12, 13	**4100 S Kedzie Ave. Chicago 32**	**Ill**
Degussa	Frankfurt/Main, Germany	
Dewrance & Co., Ltd.	Great Dover St, London SE1, England	
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Doran Co., A. V.	950 Francis Pl. St. Louis 5	Mo
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Fansteel Metallurgical Corp.	North Chicago	Ill
Fine Chemical Co.	250 W 57th St, New York 19	NY
Firth Sterling Inc.	3113 Forbes Ave, Pittsburgh 30	Pa
Foote Mineral Co.	18 W Chelten Ave. Phila 44	Pa
General Astrometals Corp.	320 Yonkers Ave, Yonkers 2	NY
General Electric Co. Lamp Metals & Components Dept.	21800 Tungsten Rd. Cleveland 17	Ohio
Handy & Harman	82 Fulton St. New York 38	NY
Haynes Stellite Co. Div. UCC	1020 W Park Ave. Kokomo	Ind
Kaiser Aluminum & Chemical Sls, Inc.	1924 Broadway, Oakland	Cal
Kawecki Chemical Co. Inc.	220 E 42nd St, New York	NY
Kennametal Inc.	Latrobe	Pa
Kulite Tungsten Co.	1040 Hoyt Ave, Ridgefield	NJ
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Metal Hydrides, Inc.	12-24 Congress St, Beverly	Mass
Metal & Thermit Corp.	Rahway Ave, Rahway	NJ
Metallizing Equipment Co. Ltd.	Chobham, Woking, Surrey, England	
Metals Disintegrating Co. Div. American-Marietta Co.	Box 290, Elizabeth B	NJ
Minerals Refining Co.	Box 367, Murray	Utah
Molybdenum Corp. of America	375 Park Ave, New York 22	NY
NATIONAL LEAD CO. Adv. Pgs. 134,135	**111 Broadway, New York 6**	**NY**
National Moldite Co. Inc.	250 South St, Newark 5	NJ
National Research Corp. Metals Div.	70 Memorial Dr. Cambridge 42	Mass
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	**5 New St. White Plains**	**NY**
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		**Pa**
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave, New Haven	Conn
Plasmadyne Corp.	3839 S Main St, Santa Ana	Cal
Reynolds Metals Co.	Box 2346, Richmond 18	Va
Semi-Alloys Inc.	550 S Fulton Ave, Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
SHOWA DENKO K. K. Adv Pg 276W	**34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan**	
Sintered Products Ltd.	Hamilton Rd, Sutton Ashfield, Notts, Eng.	
Southern Lead Rolling Co.	Box 6195, Dallas 22	Tex
Storchheim Research & Devel Corp.	34-32 57th St, Woodside	NY
Sylvania-Corning Nuclear Corp.	208-20 Willets Point Blvd, Bayside	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	**Box 898, Attleboro**	**Mass**
Ugine-Carbone	15 rue du Rocher, Paris 8, France	
Union Carbide Metals Co. Div. UCC	270 Park Ave, New York 17	NY
U.S. Graphite Co. Div. Wickes Corp.	Holland Ave, Saginaw 5	Mich

WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
Wall Colmonoy Corp. Stainless Processing Div.	19344 John R. St. Detroit 3	Mich
Western Gold & Platinum Co.	525 Harbor Blvd. Belmont	Cal
Westinghouse Elec Corp. Materials Mfg.	Blairsville	Pa
Will Corp.	Box 1050, Rochester 8	NY

METALS—VACUUM-MELTED

Allegheny Ludlum Steel Corp.	Oliver Bldg. Pittsburgh 22	Pa
Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Atlas Titanium, Ltd.	Centre St. Welland, Ontario, Canada	
Belmont Smelting & Refining Works, Inc.	322 Belmont Ave. Brooklyn 7	NY
Beryllium Corp.	Box 1462, Reading	Pa
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Carpenter Steel Co.	607 Washington St. Reading	Pa
Chicago Development Corp.	5810 47th Ave. Riverdale	Md
Climax Molybdenum Co. Div. Amer. Metal Climax, Inc.	1270 Ave. of the Americas, New York 20	NY
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W, Montreal, Que Can	
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Davidson Steel Corp.	444 Madison Ave. New York 22	NY
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Driver Co., Wilbur B.	1875 McCarter Hwy. Newark 4	NJ
Driver-Harris Co.	Harrison	NJ
Firth Sterling Inc.	3113 Forbes Ave. Pittsburgh 30	Pa
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
General Electric Co. Metallurgical Prods Dept.	11139 E 8 Mile Blvd. Detroit 32	Mich
Handy & Harman	82 Fulton St. New York 38	NY
Haynes Stellite Co. Div. UCC	1020 W Park Ave. Kokomo	Ind
Heppenstall Co.	Pittsburgh	Pa
Kawecki Chemical Co. Inc.	220 E 42nd St. New York	NY
Kelsey-Hayes Co.	New Hartford	NY
Kelsey-Hayes Co. Utica Drop Forge & Tool Div.	Utica 4	NY
Kulite Tungsten Co.	1040 Hoyt Ave. Ridgefield	NJ
Lithium Corp. of America, Inc.	60 E 42 St. New York 17	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
New Metals & Chemicals Ltd.	Chancery Ln. London, WC2, England	
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Nukem, GmbH	Wolfgang bei Hanau/Main, Germany	
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Precision Castparts Corp.	4600 SE Harney Dr. Portland 6	Ore
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
S. I. A. C. Adv Pg 276T	Via S. Sebastiano 2, Genoa, Italy	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
SEMI-ELEMENTS INC. Adv Pg 98	Saxonburg Blvd. Saxonburg	Pa
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
Ugine	10 rue du General Foy, Paris 8, France	
Union Carbide Metals Co. Div. UCC	270 Park Ave. New York 17	NY
Universal Cyclops Steel Corp.	Bridgeville	Pa
VACUUM-ELECTRONIC CORP. Adv Pg 260	Terminal Dr. Plainview	NY
VAR-LAC-OID CHEMICAL CO. Adv Pg 265	116 Broad St. New York 4	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
Westinghouse Elec Corp. Materials Mfg.	Blairsville	Pa

METERS

See Also AMMETERS
CONTROLS
GAGES
INDICATORS
VOLTMETERS

METERS—BTU

Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que Can	
BRISTOL CO. Adv Pg 110	Box 1790 HBG, Waterbury 20	Conn
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Hays Corp.	Michigan City 40	Ind
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Selas Corp. of America	Dresher	Pa
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY

METERS—CONDUCTIVITY

Atkins Technical, Inc.	1276 W 3 St. Cleveland 13	Ohio
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que Can	
Biddle Co., James G.	1316 Arch St. Philadelphia 7	Pa
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Chem-Pure Service Co.	702 Industrial Rd. San Carlos	Cal
ELECTRONIC ASSOCIATES, LTD. Adv Pg 260	4616 Yonge St. Willowdale, Ont. Can.	
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
General Radio Co.	West Concord	Mass
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Hickok Electrical Instrument Co.	10501 Dupont Ave. Cleveland 8	Ohio
Industrial Instruments, Inc.	89 Commerce Rd. Dept. N, Cedar Grove	NJ
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kahn & Company, Inc.	Box 516 Hartford 1	Conn
LKB-Produkter Fab.	Box 12220, Stockholm 12, Sweden	
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Lock & Co. Ltd., A. M.	Union St. Oldham, Lanc. England	
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Pyé & Co. Ltd., W. G.	York St. Cambridge, England	
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Special Instruments Lab. Inc.	312 W Vine Ave. Knoxville 02	Tenn
Stromberg-Carlson Div. Gen Dynamics Corp.	100 Carlson Rd. Rochester	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 6	Pa

METERS—COUNTING-RATE

AB Scienta	Kvillegatan 9B, Box 366, Goeteborg	Swed
AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
American Electronics Inc. Nuclear Div.	9459 W Jefferson Blvd. Culver City	Cal
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD. Adv Pg 240	34-01 30th St. LIC 6	NY
ANTON ELECTRONIC LABS. INC. Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
Assembly Products, Inc.	75 Wilson Mills Rd. Chesterland	Ohio
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	Charleroi, Belgium	
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Atomium Corp.	940 Main St. Waltham	Mass
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que Can	
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
BRISTOL CO. Adv Pg 110	Box 1790 HBG, Waterbury 20	Conn
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Durant Mfg. Co.	1900 N Buffum St. Milwaukee 1	Wis
Ekco Electronics Ltd. Ekco Wks.	Southend-on-Sea, Essex, England	
Electric Tachometer Corp.	68 & Upland Sts. Phila 42	Pa
ELECTRONIC ASSOCIATES, LTD. Adv Pg 260	4616 Yonge St. Willowdale, Ont. Can.	
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Farnell Instruments, Ltd. Light Ind. Est.	York Rd. Wetherby, England	
FORRO SCIENTIFIC CO. Adv Pg 236	833 Lincoln St. Evanston	Ill
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
ISOTOPE DEVELOPMENTS LTD. Adv Pg 239	Bath Rd. Reading, Berks, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill

NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	2 Richwood Pl. Danville	NJ
NUCLEAR-ELECTRONICS CORP.		
Adv Pg 6	2925 N Broad St. Philadelphia 32	Pa
NUCLEAR ENTERPRISES LTD.		
Adv Pg 238	550 Berry St. Winnipeg 12, Manitoba	
NUCLEAR MEASUREMENTS CORP.		
Adv Pg 66	2455 N Arlington Ave. Indianapolis 18	Ind
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Dagrow St. Brooklyn 31	NY
Panax Equipment, Ltd.	Holmethorpe Ind. Est. Redhill, Surr. Eng	
Physique Industrielle S. A.	66 Bvd. de l'Imperatrice Brussels 1, Belg	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Potter Aeronautical Corp.	Route #22, Union	NJ
RADIATION COUNTER LABS. INC.		
Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276i	61 E North Ave. Northlake	Ill
Servonuclear Corp.	28-21 Astoria Blvd, Long Island City	NY
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TOKYO SHIBAURA ELECTRIC CO., LTD.	12 Yuraku-cho 1-Chome, Chiyoda-ku,	
Adv Pg 276D	Tokyo, Japan	
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Zentralwerkstatt Gottingen GmbH	Box 624, Gottingen, W Germany	

METERS—ELECTRIC
See AMMETERS
VOLTMETERS ETC.

METERS—FLOW, GAS
See Also CONTROLS—FLUID-FLOW

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Aircraft Equip. Testing Co., Inc.	1808 Fleet St. Baltimore 31	Md
American Gas Furnace Co.	140 Spring St. Elizabeth	NJ
B-I-F Industries, Inc.	530-D Harris Ave. Providence 1	RI
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
Barton Instrument Corp.	580 Monterey Pass Rd. Monterey Park	Cal
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Black, Sivalls & Bryson, Inc	7500 E 12 St. Kansas City 26	Mo
BRISTOL CO. Adv Pg 110	Box 1790 NBG, Waterbury 20	Conn
Brooks Instrument Co. Inc.	407 W Vine St. Hatfield	Pa
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
Eclipse Fuel Engineering Co.	1100 Buchanan, Rockford	Ill
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Fielden Electronics Ltd.	Paston Rd. Wythenshawe, Man 22, Eng	
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Flow Corp.	85 Mystic St. Arlington 74	Mass
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276H	Erlangen-Bruck, Germany	
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Glenco Corp.	212 Durham Ave. Metuchen	NJ
HAGAN CHEMICALS & CONTROLS, INC.		
Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Hastings-Raydist, Inc.	Newcomb Ave. Hampton	Va
Hays Corp.	Michigan City 40	Ind
Hoke, Inc.	1 Tenskill Park, Cresskill	NJ
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Librascope Div. Gen Precision, Inc.	Glendale 1	Cal
McIntosh Equipment Corp. Walker, Crosweller Div.	17-19 Park Row, New York 38	NY
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
Meriam Instrument Co.	10920 Madison Ave. Cleveland 2	Ohio
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
National Cylinder Gas Div. Chemetron Corp.	800 N Michigan Ave. Chicago 11	Ill
National Instrument Labs. Inc.	842 Evarts St. NE. Washington	DC
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Dagrow St. Brooklyn 31	NY
Officine Galileo	Via Carlo Bini 44, Florence, Italy	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
Potter Aeronautical Corp.	Route #22, Union	NJ
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Rockwell Mfg. Co.	400 N Lexington Ave. Pittsburgh 8	Pa
Roots-Connersville Blower Div. Dresser Industries, Inc.	900 W Mount St. Connersville	Ind
Selas Corp. of America	Dresher	Pa
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Simplex Valve & Meter Co.	7 E Orange St. Lancaster	Pa
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Thompson, Ltd., John	Wolverhampton, England	
Trans-Sonics, Inc.	Burlington	Mass
Trimount Instrument Co.	3119 W Lake St. Chicago 12	Ill
Wallace & Tiernan, Inc.	25 Main St. Belleville 9	NJ
Waukee Engineering Co. Inc.	5138 N 35th St. Milwaukee 9	Wis
Wilmad Glass Co.	Rt. 40 & Oak Rd. Buena	NJ

METERS—FLOW, LIQUID
See Also CONTROLS—FLUID-FLOW

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Aircraft Equip. Testing Co., Inc.	1808 Fleet St. Baltimore 31	Md
Assembly Products, Inc.	75 Wilson Mills Rd. Chesterland	Ohio
B-I-F Industries, Inc.	530-D Harris Ave. Providence 1	RI
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
Barton Instrument Corp.	580 Monterey Pass Rd. Monterey Park	Cal
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
BRISTOL CO. Adv Pg 110	Box 1790 NBG, Waterbury 20	Conn
Brooks Instrument Co. Inc.	407 W Vine St. Hatfield	Pa
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
Eclipse Fuel Engineering Co.	1100 Buchanan, Rockford	Ill
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Glenco Corp.	212 Durham Ave. Metuchen	NJ
HAGAN CHEMICALS & CONTROLS, INC.		
Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Hays Corp.	Michigan City 40	Ind
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Liquid Metals, Inc.	Box 2666, Westford	Mass
McIntosh Equipment Corp. Walker, Crosweller Div.	17-19 Park Row, New York 38	NY
MSA Research Corp.	Callery	Pa
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
Meriam Instrument Co.	10920 Madison Ave. Cleveland 2	Ohio
Metrix Instruments Ltd.	54 Victoria Rd. Surbiton, Surrey, Eng	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Narda Ultrasonics Corp.	625 Main St. Dept. NBG, Westbury	NY
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
Potter Aeronautical Corp.	Route #22, Union	NJ
Powertron Ultrasonics Corp.	E Gate Blvd, Garden City	NY
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Revere Corp. of America	Wallingford	Conn
Rockwell Mfg. Co.	400 N Lexington Ave. Pittsburgh 8	Pa
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Simmonds Precision Products, Inc.	105 White Plains Rd. Tarrytown	NY
Simplex Valve & Meter Co.	7 E Orange St. Lancaster	Pa
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Thompson, Ltd., John	Wolverhampton, England	
Trimount Instrument Co.	3119 W Lake St. Chicago 12	Ill
Ultradyne, Inc.	2622 San Mateo NE. Albuquerque	NM
Wallace & Tiernan, Inc.	25 Main St. Belleville 9	NJ
Wilmad Glass Co.	Rt. 40 & Oak Rd. Buena	NJ

METERS—pH
See Also CONTROLS—pH

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Advanced Instruments, Inc.	45N Kenneth St. Newton Highlands 61	Mass
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo

Assembly Products, Inc.	75 Wilson Mills Rd. Chesterland	Ohio
B-I-F Industries, Inc.	530-D Harris Ave. Providence 1	RI
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
Beckman Instruments, Inc. Scientific & Process Instruments Div.	2500 Fullerton Rd. Fullerton	Cal
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
BRISTOL CO. Adv Pg 110	Box 1790 HBG, Waterbury 20.	Conn
Cambridge Instrument Co. Inc.	420 Lexington Ave. New York 17	NY
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1,	Eng
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Dearborn Chemical Co.	Merch. Mart Plaza, Chicago 54	Ill
Electroflo Meters Co. Ltd.	Abbey Rd, Park Royal, NW 10, London	Eng
Electronic Instruments Ltd.	Lower Mortlake Rd. Richmond, Surrey	Eng
Fielden Electronics Ltd.	Paston Rd. Wythenshawe, Man 22,	Eng
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
NAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30.	Pa
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
JENAER GLASWERK SCHOTT & GEN. Adv Pg 276Z	10 Hattenberstr. Mainz/Rhein W Ger	
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
LaPine & Co., Arthur S.	6001 S Knox Ave. Chicago 29	Ill
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Lock & Co. Ltd., A. M.	Union St. Oldham, Lanc. England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	Eindhoven, The Netherlands	
Pye & Co. Ltd., W. G.	York St. Cambridge, England	
Schueler & Co.	75 Cliff St. New York 38	NY
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Smith-Florence, Inc.	4228 23 Ave. W. Seattle	Wash
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
WELCH MFG. CO., W.M. Adv Pg 214	1515 Sedgwick St. Chicago 10	Ill
Will Corp.	Box 1050, Rochester 3	NY

METERS—RADIATION-SURVEY
See MONITORS—RADIATION

METERS—REACTOR-PERIOD

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD. Adv Pg 240	34-01 30th St. LIC 6	NY
Assembly Products, Inc.	75 Wilson Mills Rd. Chesterland	Ohio
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	Charleroi, Belgium	
Ekco Electronics Ltd. Ekco Wks.	Southend-on-Sea, Essex, England	
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Gyra Electronics Corp.	Box 184 La Grange	Ill
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	Eindhoven, The Netherlands	
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY

METERS—RECORDING
See RECORDERS

MICA

Alvares Turner Corp.	233 Broadway, New York 7	NY
Asheville-Schoonmaker Mica Co.	900 Jefferson Ave. Newport News	Va
Auburn Mfg. Co.	800 Stack St. Middletown	Conn
Emerson Plastics Corp.	1383 Seabury Ave. Bronx 61	NY
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Minnesota Mining & Mfg. Co.	200 Bush Ave. St. Paul 6	Minn
RADIATION COUNTER LABS. INC. Adv Pg 39	5122 W Grove St. Skokie	Ill

MICROAMMETERS
See AMMETERS—MILLI & MICRO

MICROCHEMICAL EQUIPMENT

Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
Elion Instruments Inc.	430 Buckley St. Bristol	Pa
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 38	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
NUCLEAR-OHIO, INC. Adv Pg 54	27105 Knickerbocker Rd. Cleveland 40	Ohio
Nuclear Science Associates	55 Manor Dr. Newark 6	NJ
Reichert, G. Optische Werke A. G.	Hernalser Hauptstr 219, Vienna 18,	Aust
Research Specialties Co.	200 S Garrard Blvd. Richmond	Cal
Schueler & Co.	75 Cliff St. New York 38	NY
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Volk Radiochemical Co.	5412 N Clark St. Chicago 40	Ill
Will Corp.	Box 1050, Rochester 3	NY

MICROFILMING
See SERVICES: MICROFILMING

MICROSCOPES—ELECTRON

A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Bendix Corp. Cincinnati Div.	3130 Wasson Rd. Cincnti 8	Ohio
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
New England Scientific Instruments Corp.	238 Main St. Cambridge 42	Mass
Philips Electronic Instruments	750 S Fulton Ave. Mt. Vernon	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	Eindhoven, The Netherlands	
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	

MICROSCOPES—OPTICAL

Abbeon Supply Co.	179-15 Jamaica Ave. Jamaica 32	NY
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Optical Co. Instrument Div.	Box A, Buffalo 15	NY
American Optical Co. Safety Prods. Div.	28 Mechanic St. Southbridge	Mass
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Broadhurst Clarkson & Co. Ltd.	63 Farringdon Rd. London EC1, England	
Buhl Optical Co.	1009 Beech Ave. Pittsburgh 33	Pa
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Epic, Inc.	150 Nassau St. New York 38	NY
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gaertner Scientific Corp.	1237 Wrightwood Ave. Chicago	Ill
Hacker & Co. Inc., William J.	Box 646, W Caldwell	NJ
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1,	Eng
LaPine & Co., Arthur S.	6001 S Knox Ave. Chicago 29	Ill
New England Scientific Instruments Corp.	238 Main St. Cambridge 42	Mass
Reichert, G. Optische Werke A. G.	Hernalser Hauptstr 219, Vienna 18,	Aust
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Schueler & Co.	75 Cliff St. New York 38	NY
Taylor, Taylor & Hobson Div. Rank Prec. Ind. Ltd.	Stoughton St. Leicester, England	
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Unitron Instrument Div. United Scientific Co.	204 Milk St. Boston	Mass
Will Corp.	Box 1050, Rochester 3	NY

MICROTOMES

American Optical Co. Instrument Div.	Box A, Buffalo 15	NY
Cambridge Instrument Co. Inc.	420 Lexington Ave. New York 17	NY
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Custom Scientific Instruments Inc.	541 Devon St. Kearny	NJ
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Hacker & Co. Inc., William J.	Box 646, W Caldwell	NJ
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
International Equipment Co.	1284 Soldiers Field Rd. Boston 35	Mass
LKB-Produkter Fab.	Box 12220, Stockholm 12, Sweden	

Miso Instrument Co.	80 Trowbridge St. Cambridge 38	Mass
Philips Electronic Instruments	750 S Fulton Ave. Mt. Vernon	NY
PHILIPS' GLOEILAMPENFABRIEKEN, H. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Process & Instruments	15 Stone Ave. Brooklyn 33	NY
Reichert, G. Optische Werke A. G.	Hernalser Hauptstr 219, Vienna 18, Aust	
Schueler & Co.	75 Cliff St. New York 38	NY
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Will Corp.	Box 1050, Rochester 3	NY
Zentralwerkstatt Gottingen GmbH	Box 624, Gottingen, W Germany	

MICROWAVE COMPONENTS & TEST EQUIPMENT

A. E. I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Ad-Yu Electronics Lab. Inc.	249 Terhune Ave, Passaic	NJ
Ansco Div. Gen. Anil. & Film Corp.	175 Clinton St. Binghamton	NY
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd. Santa Ana	Cal
Central Electronic Mfrs.	2 Richwood Pl. Denville	NJ
De Mornay-Bonardi, Inc.	780 S Arroyo Pkwy. Pasadena	Cal
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
E. M. L.-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. Adv Pg 96	Hayes, Middlesex, England	
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
General Communication Co.	677 Beacon St. Boston	Mass
General Radio Co.	West Concord	Mass
Hewlett-Packard Co.	1501 Page Mill Rd. Palo Alto	Cal
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
Hoffman Electron Tube Corp.	804 Salisbury Park Dr. Westbury	NY
KEARFOTT DIV. GEN. PRECISION, INC.		
Adv Pg 269	1150 McBride Ave. Little Falls	NJ
Laboratory for Electronics, Inc.	1079 Commonwealth Ave. Boston	Mass
Litton Industries	336 N Foothill Rd. Beverly Hills	Cal
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
LUMATRON ELECTRONICS, INC.		
Adv Pg 267	116 County Courthouse Rd. New Hyde Park	NY
Lytle Corp.	1404 San Mateo SE Albuquerque	NM
Manson Laboratories, Inc.	375 Fairfield Ave. Stamford	Conn
Maxson Corp., W.L., Instruments Div.	475 10th Ave. New York 18	NY
Model Engineering & Mfg. Inc.	50 Frederick St. Huntington	Ind
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
Narda Microwave Corp.	118 Herricks Rd. Mineola	NY
National Beryllia Corp.	4501 Dell Ave. North Bergen	NJ
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Northeast Scientific Corp.	30 Wetherbee St. Acton	Mass
PHILIPS' GLOEILAMPENFABRIEKEN, H. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Polarad Electronics Corp.	43-20 34th St. Long Island City 1	NY
Radio City Products Co.	Centre & Glendale Rds. Easton	Pa
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS.		
Adv Pg 70	Front & Cooper Sts. Camden 2	NJ
Ramage & Miller, Inc.	3221 Florida Ave. Richmond	Cal
Raytheon Co. Microwave & Power Tube Div.	Foundry Ave. Waltham	Mass
Scott (Electronic Engrg.) Ltd., James	68 Brockville St. Glasgow E2, Scotland	
Sperry Electronic Tube Div. Sperry Rand Corp.	Gainesville	Fla
Sperry Microwave Electronics Co.	Box 1828, Clearwater	Fla
Spinner Elektro-phys Gerate GmbH, Georg	Erzgiessereistr. 33, Munich 2, W Ger	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Varian Associates	611 Hansen Way, Palo Alto	Cal
Victory Engineering Corp.	Box 373, Union	NJ

MILLS—GRINDING

BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Consolidated Western Steel Div. U. S. Steel Corp.	Box 2015, Term. Ann. L A 54	Cal
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Mansfield & Co. Ltd., Frank	62 Hamilton Sq. Birkenhead, Chesh. Eng	
Metal Disintegrating Co. Div. American-Marietta Co.	Box 290, Elizabeth 8	NJ
Miller & Son, Inc., Franklin P.	36 Meadow St. E Orange 36	NJ
Nordberg Mfg. Co.	3073 S Chase Ave. Milwaukee	Wis
Pulverizing Machinery Co. Div. American-Marietta Co.	Chatham Rd. Summit	NJ
Societe Fives-Penhoet	340 rue Saint-Honore, Paris 1, France	
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
Sturtevant Mill Co.	103 Clayton St. Boston 22	Mass
Thompson, Ltd., John	Wolverhampton, England	
Torsion Balance Co.	36 Moneghan St. Clifton	NJ
Will Corp.	Box 1050, Rochester 3	NY

MILLS—ROLLING

Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
BALDWIN-LIMA-HAMILTON CORP.		
Adv Pg 103	Dept N B, Philadelphia 42	Pa
Bliss Co., E. W.	1375 Raff Rd. SW, Canton	Ohio
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Farrel-Birmingham Co. Inc.	Ansonia	Conn
Kaiser Aluminum & Chemical Sls. Inc.	1924 Broadway, Oakland	Cal
LOMA MACHINE MFG. CO. INC.		
Adv Pg 226	114 E 32 St. New York	NY
Miller & Son, Inc., Franklin P.	36 Meadow St. E Orange 36	NJ
Robertson & Co. Ltd., W. H. A.	Lynton Wks, Bedford, England	
Sturtevant Mill Co.	103 Clayton St. Boston 22	Mass
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
Union Steel Corp.	1550 Ashwood Terr. Union	NJ
U. S. STONEWARE CO. Adv Pg 79	Akron 9	Ohio
Waterbury Farrel Foundry & Machine Co. Div. Textron, Inc.	Box 70, Waterbury 20	Conn

MODELS—SCALE

Atkins & Merrill, Inc.	Post Rd. South Sudbury	Mass
ATOMIC DEVELOPMENT & MACHINE CORP.		
Adv Pg 128	15-04 130 St. College Point 56	NY
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Madewell Co., Inc.	381 Congress St. Boston 10	Mass
Model Builders, Inc.	5300 W 63 St. Chicago 38	Ill
Model Display Studios	Box 10604, Raleigh	NC
Thompson & Co., John L.	1118-22nd St. NW, Washington 7	DC
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	

MODERATORS—REACTOR, ORGANIC, POLYPHENYL

See Also GRAPHITE
METALS, ALLOYS & COMPOUNDS
WATER—HEAVY

Esso Standard Div. Humble Oil & Ref Co.	15 W 51st St. New York 19	NY
General Atrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
Monsanto Chemical Co. Organic Chemicals Div.	800 N Lindbergh Blvd. Dept N, St. Louis 66	Mo
Monsanto Chemicals Ltd.	10/18 Victoria St, London SW1, Eng	
National Beryllia Corp.	4501 Dell Ave. North Bergen	NJ

MONITORS—MOISTURE

See Also GAGES—HUMIDITY

American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD.		
Adv Pg 240	34-01 30th St. LIC 6	NY
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
E. M. I. ELECTRONICS LTD. Adv Pg 96	Hayes, Middlesex, England	
Gelman Instrument Co.	106 N Main St. Chelsea	Mich
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP.		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Nuclear Enterprises (GB) Ltd.	Bankhead Medway, Edinburgh 11, Scot	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	

MONITORS—RADIATION

See Also COUNTERS—RADIATION
REACTOR MONITORING SYSTEMS
SERVICES: MONITORING

1. AIR-PARTICLE, RADIOACTIVITY
2. AREA-RADIATION, FIXED
3. AREA-RADIATION, HAND-PORTABLE
4. CLOTHING & LAUNDRY, RADIOACTIVITY
5. GAS, RADIOACTIVITY
6. HAND & FOOT, RADIOACTIVITY
7. SCRAM, REACTOR
8. SITE, MOBILE
9. WATER, RADIOACTIVITY

AB Scienta, 2-3	Kvillegatan 9B, Box 366, Goeteborg	Swed

AEG, 1-3-7, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV. 2, Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Admiral Corp. 3	3800 W Cortland St. Chicago 47	Ill
Airmec, Ltd. 2-3	High Wycombe, Bucks. England	
ALLIED RESEARCH ASSOCIATES, INC. 2, Adv Pg 107	43 Leon St. Boston 15	Mass
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD. 2-3-7, Adv Pg 240	34-81 38th St. LIC 6	NY
ANTON ELECTRONIC LABS. INC. 1-2-3-4-8-9, Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
APPLIED PHYSICS CORP. 5, Adv Pg 256	2724 S Peck Rd. Monrovia	Cal
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 1-2-3-4-5-7-8-9, Adv Pg 276AA	Charleroi, Belgium	
Atomasters-Suntaine Corp, 1-2-3-4-5-6-8-9	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. 3-5, Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Atomium Corp. 2-3-6-9	940 Main St. Waltham	Mass
Avtron Manufacturing, Inc. 2	10409 Meech Ave. Cleveland 5	Ohio
BAIRD-ATOMIC, INC. 1-2-3-4-5-6, Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bell Telephone Mfg Co, Nuc Energy Dv, 1-2-3-6-7	Berkenrodelei 75, Antwerp, Belgium	
Biotronics Labs. Inc. 3	Box 744, Sta. B, Montreal 2, P.Q. Can	
Borg-Warner Controls Div, Borg-Warner Corp, 1-2	3300 Newport Blvd, Santa Ana	Cal
Budd Co. Instruments Div. 2-3	Box 245, Phoenixville	Pa
Burndept Ltd. 2-4	West St. Erith, Kent, Eng	
Century Electronics & Instruments, Inc. 8	Box 6216, Tulsa 10	Okla
Computer Equipment Corp. 2	1931 Pontius Ave. L A 25	Cal
CONTROLS FOR RADIATION, INC. 2-3, Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP. 2-3-9, Adv Pg 104	Box 748, Fort Worth	Tex
COSMIC, INC. 1-6, Adv Pg 133	1028 Connecticut Ave. Washington 6	DC
Curtis Nuclear Corp, 2-3	1645 W 135th St. Gardena	Cal
CURTISS-WRIGHT CORP. PRINCETON DIV. 2, Adv Pg 211	Box 110, Princeton	NJ
E. M. L.-Comor Electronics Ltd, 3-4-6	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. 3-4-6, Adv Pg 96	Hayes, Middlesex, England	
Eberline Instrument Corp, 1-2-3-4-6	Box 279, Santa Fe	NM
EDGERTON, GERMESHAUSEN & GRIER, INC. 2, Adv Pg 251	160 Brookline Ave. Boston 15	Mass
Ekco Electronics Ltd, Ekco Wks, 1-3-6-9	Southend-on-Sea, Essex, England	
ELECTRONIC ASSOCIATES, LTD. 1-3-4, Adv Pg 260	4616 Yonge St. Willowdale, Ont. Can.	
Electronic Instruments Ltd, 5	Lower Mortlake Rd. Richmond, Surrey	Eng
Ericsson Telephones Ltd, 1-2-3-5-7-9	High Church St, New Basford, Nott. Eng	
Fleming Radio (Developments) Ltd, 1-9	Caxton Way, Stevenage, Herts, England	
FORRO SCIENTIFIC CO. 3, Adv Pg 236	833 Lincoln St. Evanston	Ill
Franklin Systems, Inc, 1-2-3-4-5-6-7-8-9	2734 Hillsboro Rd, W Palm Beach	Fla
FRIESEKE & HOEPFNER GmbH, 1-2-3-4-5-6-9, Adv Pg 276N	Erlangen-Bruck, Germany	
GAAA, 1-2-3-5-8	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Gelman Instrument Co, 1-9	106 N Main St. Chelsea	Mich
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 2, Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Gilardoni S.p.A. 2-3-4-5-9	Via Statale, Mandello Lario, Como	Italy
Interstate Electronics Corp, 1-2-3-5-6-7-9	707 E Vermont Ave, Anaheim	Cal
INTERTECHNIQUE S.A. 1-2-3-8-9, Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
ISOTOPE DEVELOPMENTS LTD. 2-3, Adv Pg 239	Both Rd. Reading, Berks, England	
ISOTOPES INC. 3, Adv Pg 116	123 Woodland Ave. Westwood	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, 2, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B. 1-2-3-4-6-8-9, Adv Pg 255	Box 415 Mountain Lakes	NJ
JOHNSTON LABS. INC., WILLIAM H. 1-2-3-5-9, Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
Jordan Electronics, 2-3-9	Alhambra	Cal
Kahl Scientific Instr. Corp, 1-3-4-5-6-9	Box 1188 El Cajon	Cal
Kobe Kogyo Corp, 1-2-3-4-5-6-8-9	1-5 Wadayama-Dori, Kobe, Japan	
Labgear Ltd, Nucleonics Div, 1	Cromwell Rd, Cambridge, England	
Lab. Prof. Dr. Berthold, 1	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
Land Air Inc. 1-3-5	7444 W Wilson Ave. Chicago 31	Ill
LANDIS & GYR, INC. 1-9, Adv Pg 253	45 W 45 St. New York 36	NY
LANDSVERK ELECTROMETER CO. 1-9, Adv Pg 255	641 Sonora Ave. Glendale 1	Cal
Leeds & Northrup Co, 1	4936 Stenton Ave, Phila 44	Pa
LOCKHEED NUCLEAR PRODUCTS, 2-3, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Lundell & Co. 7	7356 S Woodlawn Ave. Chicago 19	Ill
M.B.L.E. 1-2-5-9, Adv. Pgs. 259, 276V	80 Rue des Deux Gares, Brussels 7, Belg	
MEILLON, INC., GEORGE T. 2-3-5, Adv Pg 252	132 Nassau St. New York 38	NY
Menlo Research Laboratory, 3	1627 Bay Rd. East Palo Alto	Cal
Miles Hivolt Ltd. 1-3	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Millipore Filter Corp. 9	Bedford	Mass
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, 7, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Model Engineering & Mfg. Inc. 5-7	50 Frederick St. Huntington	Ind
Mullard Equipment Ltd, 2-4-6	Torrington Pl, London WC1, England	5291
Nems Clarke Co. Div. Vitro Corp. of America, 1	919 Jesup-Blair Dr. Silver Spring	Md
Nihon-Muen, K. K. 1-2-3-4-5-6-9	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP. 3, Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. 1-2-3-9, Adv Pg 116	2 Richwood Pl. Denville	NJ
NUCLEAR-ELECTRONICS CORP. 1-3-6, Adv Pg 6	2925 N Broad St. Philadelphia 32	Pa
Nuclear Engineering Co. Inc. 3-4	65 Ray St. Box 218, Pleasanton	Cal
Nuclear Enterprises (GB) Ltd, 1-2-3-5-8-9	Bankhead Medway, Edinburgh 11, Scot	
NUCLEAR ENTERPRISES LTD. 1-2-3, Adv Pg 258	550 Berry St. Winnipeg 12, Manitoba	
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC) 2, Adv Pg 15	Apollo	Pa
NUCLEAR MEASUREMENTS CORP. 1-2-3-8-9, Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
NUCLEAR-OHIO, INC. 1-5, Adv Pg 54	27105 Knickerbocker Rd. Cleveland 40	Ohio
Nuclear Research Applications Ltd. 2-3-4-6-8-9	Bell St. Reigate, Surrey, England	
NUCLEONIC CORP. OF AMERICA, 1-2-3-4-5-6-9, Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Ohmart Corp, 1-2-3-4-5-6-9	2236 Bogen St. Cincinnati 14	Ohio
Panax Equipment, Ltd, 2-3	Holmethorpe Ind. Est. Redhill, Surr, Eng	
Peebles & Co Ltd, Bruce, Electronics Div 1	E Pilton, Edinburgh 5, Scotland	
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 2-3-4-6-9, Adv Pg 267	Eindhoven, The Netherlands	
Physique Industrielle S. A. 3-6	66 Bvd. de l'Imperatrice Brussels 1, Belg	
Picker & Harting Vertrieb GMBH, 1-4-5	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. 1-4-5, Adv Pg 109	25 S Broadway, White Plains	NY
Plessey Nucleonics Ltd. 2-3-4-5-8-9	Weedon Rd. Northampton, England	
Poetschke & Co. oHG 1-2-3-4-5-6-9	Box 2766, Frankfurt/Main 1, Germany	
Precision Radiation Instruments, 1-2-3	5810 S Normandie, Los Angeles 44	Cal
RADIATION COUNTER LABS. INC. 3, Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB. 2-9, Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Radiation Recording Instruments, 1-2-3-4-5-6-8-9	Box 1066, Sta. B, Montreal 2, Que Can	
Radionics Inc. 2-3	Lafayette & Water Sts. Norristown	Pa
Riggs Nucleonics Corp. 2-3-8-9	135 W Magnolia Blvd. Burbank	Cal
SELO, 1-2-3-4-8-9	Via Monfalcone, 12, Milano, Italy	
Schmidt Instrument Co. 1	Box 111, San Carlos	Cal
Siemens-Reiniger-Werke AG, 1-9	Luitpoldstr. 45, Erlangen, Germany	
Simmonds Ltd., L. E. 2-3	Byron Rd. Harrow, Middlesex, England	
SOLID STATE RADIATIONS, INC. 1-2-3, Adv Pg 44	9925 W Jefferson Blvd. Culver City	Cal
Special Instruments Lab, Inc. 1	312 W Vine Ave, Knoxville 02	Tenn
Staplex Co. Air Sampler Div. 1	783 5th Ave. Brooklyn 32	NY
Stromberg-Carlson Div. Gen. Dynamics Corp. 1-2-3-4-5-6-7-8-9	100 Carlson Rd. Rochester	NY
TECHNICAL ASSOCIATES, 1-2-3-4-5-6-7-8-9, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
Telechrome Mfg. Corp, 1-2-3-4	28 Ranick Dr. Amityville	NY
TERMINAL RADIO INTERNATIONAL LTD. 1-3-5-9, Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TEXAS NUCLEAR CORP. 5, Adv. Pgs. 228, 229	Box 9267, Allendale Sta. Austin 17	Tex
TOKYO SHIBAURA ELECTRIC CO., LTD. 2-9, Adv Pg 276O	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TRACERLAB INC. 1-2-3-4-5-6-8-9, Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. NUCLEAR CORP. 1-2-3-4-5-9, Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
Universal Transistor Products Corp. 2-3-4	36 Sylvester St. Westbury	NY
Uranium Instruments Co. 1-2-3	Box 1191, Grand Junction	Colo
VICTOREEN INSTRUMENT CO. 1-2-3-5-7-8-9, Adv. Pgs. 112, 113	5806-11 Hough Ave. Cleveland 3	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Westinghouse Elec Corp, Pwr Control & Comm Dept. 1-2-5-8-9	East Pittsburgh	Pa
Zentralwerkstatt Gottingen GmbH, 2-3-4-6-8	Box 634, Gottingen, W Germany	

MOTOR-GENERATOR SETS

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
Aircraft Gound Equipment	160 Blackswarth Rd. Bristol, Eng.	

ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	**935 S 70th St. Milwaukee 1**	**Wis**
Allis Co., Louis	427 E Stewart St, Milwaukee 7	Wis
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	**Charleroi, Belgium**	
Bendix Corp.	1128 Fisher Bldg, Detroit 2	Mich
Croydon Engineering Co. Ltd.	Commerce-Purley Way, Croydon, Surrey, England	
Eastern Air Devices, Inc.	385 Central Ave. Dover	NH
Elcor Div. Scranton Corp.	4059 W North Ave. Chicago 39	Ill
Electric Machinery Mfg. Co.	800 Central Ave. Minneapolis 13	Minn
Electro Dynamics Div.		
Gen. Dynamics Corp.	163 Ave. A & North St. Bayonne	NJ
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Fairbanks, Morse & Co.	600 S Michigan Ave. Chicago 5	Ill
Fuji Electric Mfg. Co. Ltd.	2-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	**Erith, Kent, England**	
Georator Corp.	315 Tudor Ln. Manassas	Va
Great Lakes Electric Mfg. Co.	17 S Des Plaines St, Chicago 6	Ill
KEARFOTT DIV. GEN. PRECISION, INC.		
Adv Pg 269	**1150 McBride Ave. Little Falls**	**NJ**
KOLLMORGEN CORP. Adv. Pgs. 10, 11	**347 King St. Northampton**	**Mass**
LEACH CORP. Adv Pg 253	**18435 Susana Rd. Compton**	**Cal**
Lincoln Electric Co. Ltd.	Black Fan Rd, Welwyn Garden City, Herts	Eng
Motoresearch Co.	1600 Junction Ave. Racine	Wis
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Reliance Electric & Engineering Co.	24701 Euclid Ave. Cleveland 17	Ohio
Robbins & Myers, Inc.	1345 Lagonda Ave. Springfield	Ohio
Sangamo Electric Co.	11 & Converse Sts. Springfield	Ill
TOKYO SHIBAURA ELECTRIC CO., LTD.	**12 Yuraku-cho 1-Chome, Chiyoda-ku,**	
Adv Pg 276D	**Tokyo, Japan**	
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
Varo Mfg. Co. Inc.	2201 Walnut St. Garland	Tex
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa

MOTORS—A-C

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Air Marine Motors, Inc.	369 Bay View Ave. Amityville	NY
Airborne Accessories Corp.	1414 Chestnut Ave. Hillside 5	NJ
Aircraft Ground Equipment	160 Blackswarth Rd. Bristol, Eng.	
Allen Sons & Co. Ltd., W. H., Queens Eng. Wks.	Bedford, England	
Alliance Mfg. Co.	Lake Park Blvd. Alliance	Ohio
ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	**935 S 70th St. Milwaukee 1**	**Wis**
Allis Co., Louis	427 E Stewart St, Milwaukee 7	Wis
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
American Bosch Arma Corp.	320 Fulton Ave. Hempstead	NY
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	**Charleroi, Belgium**	
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Carter Motor Co.	2711 W George St. Chicago 18	Ill
Controls Co. of America	9555 Soreng Ave. Schiller Park	Ill
Cramer Controls Corp.	Centerbrook	Conn
Dale Products, Inc.	Box 488, Columbus	Neb
Dayton Electric Mfg. Co.	126 S Oakley Blvd. Chicago 12	Ill
Eastern Air Devices, Inc.	385 Central Ave. Dover	NH
Elcor Div. Scranton Corp.	4059 W North Ave. Chicago 39	Ill
Electric Indicator Co. Inc.	Camp Ave. Stamford	Conn
Electric Machinery Mfg. Co.	800 Central Ave. Minneapolis 13	Minn
Electro Dynamics Div.		
Gen. Dynamics Corp.	163 Ave. A & North St. Bayonne	NJ
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Fairbanks, Morse & Co.	600 S Michigan Ave. Chicago 5	Ill
Fasco Industries, Inc.	255 N Union St. Rochester 2	NY
Fuji Electric Mfg. Co. Ltd.	2-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	**Erith, Kent, England**	
Genisco, Inc.	2233 Federal Ave. L A 64	Cal
Gleasner Co., A. J.	975 Bryant St. San Francisco 3	Cal
Hathaway Instruments, Inc.	5800 E Jewell Ave. Denver 22	Colo
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Howard Industries, Inc.	Racine	Wis
KEARFOTT DIV. GEN. PRECISION, INC.		
Adv Pg 269	**1150 McBride Ave. Little Falls**	**NJ**
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
Motoresearch Co.	1600 Junction Ave. Racine	Wis
Newman Industries Ltd.	Yate, Bristol, England	
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Pesco Products Div. Borg-Warner Corp.	24700 N Miles Rd, Bedford	Ohio
Redmond Co. Inc.	201 Monroe St. Owosso	Mich
Reliance Electric & Engineering Co.	24701 Euclid Ave. Cleveland 17	Ohio
Robbins & Myers, Inc.	1345 Lagonda Ave. Springfield	Ohio
Sangamo Electric Co.	11 & Converse Sts. Springfield	Ill
Small Motors, Inc.	2076 Elston Ave. Chicago 14	Ill
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St. Milwaukee 1	Wis
Superior Electric Co., The	83 Laurel St. Bristol	Conn
TOKYO SHIBAURA ELECTRIC CO., LTD.	**12 Yuraku-cho 1-Chome, Chiyoda-ku,**	
Adv Pg 276D	**Tokyo, Japan**	
Vactric (Control Equipment) Ltd.	Sloane St, London SW1, England	
Wagner Electric Co.	6400 Plymouth, St. Louis 33	Mo
Western Gear Corp.	Box 182 Lynwood	Cal
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa
WESTINGHOUSE ELEC CORP. ATOMIC EQUIP. DEPT.		
Adv. Pgs. 138, 139, 142, 143	**Cheswick**	**Pa**
Whittaker Controls Div.		
Telecomputing Corp.	915 N Citrus, LA	Cal
Yuba Consolidated Industries, Inc.	1 Bush St, San Francisco 4	Cal

MOTORS—D-C

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Airborne Accessories Corp.	1414 Chestnut Ave. Hillside 5	NJ
Aircraft Ground Equipment	160 Blackswarth Rd. Bristol, Eng.	
Allen Sons & Co. Ltd., W. H., Queens Eng. Wks.	Bedford, England	
ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	**935 S 70th St. Milwaukee 1**	**Wis**
Allis Co., Louis	427 E Stewart St, Milwaukee 7	Wis
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
American Bosch Arma Corp.	320 Fulton Ave. Hempstead	NY
Amglo Corp.	4333 Ravenswood Ave. Chicago 13	Ill
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	**Charleroi, Belgium**	
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
Bowmar Instrument Corp.	8000 Bluffton Rd. Fort Wayne	Ind
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Carter Motor Co.	2711 W George St. Chicago 18	Ill
Clifton Precision Products Co. Inc.	5050 State Rd, Drexel Hill	Pa
Controls Co. of America	9555 Soreng Ave. Schiller Park	Ill
Cramer Controls Corp.	Centerbrook	Conn
Croydon Engineering Co. Ltd.	Commerce-Purley Way, Croydon, Surrey, England	
Dayton Electric Mfg. Co.	126 S Oakley Blvd. Chicago 12	Ill
Elcor Div. Scranton Corp.	4059 W North Ave. Chicago 39	Ill
Electric Indicator Co. Inc.	Camp Ave. Stamford	Conn
Electro Dynamics Div.		
Gen. Dynamics Corp.	163 Ave. A & North St. Bayonne	NJ
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Fairbanks, Morse & Co.	600 S Michigan Ave. Chicago 5	Ill
Fuji Electric Mfg. Co. Ltd.	2-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	**Erith, Kent, England**	
Genisco, Inc.	2233 Federal Ave. L A 64	Cal
Hathaway Instruments, Inc.	5800 E Jewell Ave. Denver 22	Colo
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Howard Industries, Inc.	Racine	Wis
KOLLMORGEN CORP. Adv. Pgs. 10, 11	**347 King St. Northampton**	**Mass**
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
Muirhead Instruments Inc.	441 Lexington Ave, New York 17	NY
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Pesco Products Div. Borg-Warner Corp.	24700 N Miles Rd. Bedford	Ohio
Redmond Co. Inc.	201 Monroe St. Owosso	Mich
Reliance Electric & Engineering Co.	24701 Euclid Ave. Cleveland 17	Ohio
Robbins & Myers, Inc.	1345 Lagonda Ave. Springfield	Ohio
Sangamo Electric Co.	11 & Converse Sts. Springfield	Ill
Servomechanisms Inc.	200 Aviation Blvd. El Segundo	Cal
Small Motors, Inc.	2076 Elston Ave. Chicago 14	Ill

Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St, Milwaukee 1	Wis
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Vactric (Control Equipment) Ltd.	Sloane St. London SW1, England	
Western Gear Corp.	Box 182 Lynwood	Cal
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal
Yuba Consolidated Industries, Inc.	1 Bush St, San Francisco 4	Cal

MOTORS—HYDRAULIC

Aircraft Ground Equipment	160 Blackswarth Rd. Bristol, Eng.	
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
American Bosch Arma Corp.	320 Fulton Ave. Hempstead	NY
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
Chamberlain Ind. Ltd. Staffs Wks.	Argall Ave. Leyton E10, England	
Denison Engineering Div. Amer. Brake Shoe Co.	1160 Dublin Rd. Columbus 16	Ohio
Eastern Industries, Inc.	100 Skiff St. Hamden	Conn
Keelavite Hydraulics Ltd.	Allesley, Coventry, Warwickshire, Eng	
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
Peaco Products Div. Borg-Warner Corp.	24700 N Miles Rd. Bedford	Ohio
Rockwell Mfg. Co.	400 N Lexington Ave. Pittsburgh 8	Pa
Rucker Co.	4700 San Pablo Ave. Emeryville	Cal
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St. Cambridge, Eng	
Vickers, Inc. Div. Sperry-Rand Corp. Marine & Ordnance Dept.	Waterbury 20	Conn
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

MOTORS—SERVO

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
Biotronics Lab. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Bowmar Instrument Corp.	8000 Bluffton Rd. Fort Wayne	Ind
Clifton Precision Products Co. Inc.	5050 State Rd, Drexel Hill	Pa
Croydon Engineering Co. Ltd.	Commerce-Purley Way, Croydon, Surrey, England	
Eastern Air Devices, Inc.	385 Central Ave. Dover	NH
Eclipse Pioneer Div. Bendix Corp.	Teterboro	NJ
Edison Ind., Thomas A., Instr. Div. McGraw-Edison Co.	40 Lakeside Ave. West Orange	NJ
Electric Indicator Co. Inc.	Camp Ave. Stamford	Conn
Fernsteugerate OHG	68-72 Jahnstr, Berlin-Britz, Germany	
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave. LIC 1	NY
G-M Laboratories, Inc.	4300 N Knox Ave. Chicago 41	Ill
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	
Genisco, Inc.	2233 Federal Ave. L A 64	Cal
Helipot Div. Beckman Instruments, Inc.	2500 Fullerton Rd. Fullerton	Cal
Integra, Leeds & Northrup Ltd.	Broad St. Birmingham 15, England	
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	1150 McBride Ave. Little Falls	NJ
KOLLMORGEN CORP. Adv. Pgs. 10, 11	347 King St. Northampton	Mass
Lear, Inc.	110 Ionia Ave. NW, Grand Rapids	Mich
Librascope Div. Gen Precision, Inc.	Glendale 1	Cal
Midwestern Instruments	41st & Sheridan Rd. Box 7509, Tulsa 18	Okla
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Oster Mfg. Co., John, Avionic Div.	1 Main St, Racine	Wis
Reliance Electric & Engineering Co.	24701 Euclid Ave. Cleveland 17	Ohio
Sangamo Electric Co.	11 & Converse Sts, Springfield	Ill
Servomechanisms Inc.	200 Aviation Blvd, El Segundo	Cal
Small Motors, Inc.	2076 Elston Ave. Chicago 14	Ill
Sperry Gyroscope Co. Div. Sperry Rand Corp.	Great Neck	NY
Superior Electric Co., The	83 Laurel St. Bristol	Conn
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
Vactric (Control Equipment) Ltd.	Sloane St. London SW1, England	
Vickers, Inc. Div. Sperry-Rand Corp. Marine & Ordnance Dept.	Waterbury 20	Conn
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa
Yuba Consolidated Industries, Inc.	1 Bush St, San Francisco 4	Cal

MOUNTINGS—SHOCK & ANTIVIBRATIONAL

ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	43 Leon St. Boston 15	Mass
Barry Controls Inc.	700 Pleasant St. Watertown 72	Mass
Felters Co., The	210 South St. Boston 11	Mass
Hamilton Kent Mfg. Co.	427 Grant, Kent	Ohio
Lundell & Co.	7356 S Woodlawn Ave. Chicago 19	Ill
P I C Design Corp.	477 Atlantic Ave. E Rockaway	NY
Roberts Toledo Rubber Co.	4143 Montos St. Toledo 13	Ohio
Stillman Rubber Co.	5611 Marilyn Ave. Culver City	Cal
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa

NEUTRON DETECTORS
See CHAMBERS—FISSION
CHAMBERS—IONIZATION, NEUTRON
COUNTERS—RADIATION
SCANNERS—NEUTRON

NEUTRON-FLUX MONITORS
See DOSIMETERS—RADIATION
FOILS—NEUTRON-DETECTION
MONITORS—RADIATION
SCANNERS—NEUTRON-FLUX

NEUTRON GENERATORS
See ACCELERATORS
GENERATORS—NEUTRON

NEUTRON SOURCES
See SOURCES—RADIOACTIVE

NITROGEN
See *Under* GASES

NONDESTRUCTIVE TESTING
See TEST EQUIPMENT—NONDESTRUCTIVE
SERVICES—TESTING, NONDESTRUCTIVE

NUCLEAR-FACILITY DESIGN—NONREACTOR
See SERVICES: NUCLEAR-FACILITY DESIGN, NONREACTOR

NUCLEAR FUEL ELEMENTS
See FUEL ELEMENTS

NUCLEAR-MATERIAL ACCOUNTABILITY
See SERVICES: NUCLEAR-MATERIAL ACCOUNTABILITY

NUCLEAR PHYSICS
See SERVICES: NUCLEAR PHYSICS

NUCLEAR POWER PLANTS
See POWER PLANTS—NUCLEAR

NUCLEAR REACTORS
See REACTORS

O-RINGS
See *Also* GASKETS

Advanced Products Co.	59 Broadway, North Haven	Conn
Auburn Mfg. Co.	500 Stack St. Middletown	Conn
Bacon Industries, Inc.	192 Pleasant St. Watertown	Mass
Centralab Div. Globe-Union, Inc.	900 E Keefe Ave. Milwaukee 1	Wis
Chicago Allis Mfg. Co.	113-125 N Green St. Chicago 7	Ill
Chicago Gasket Co.	1271 W North Ave. Chicago 22	Ill
Duriron Co. Inc.	450 N Findlay St. Dayton 4	Ohio
Edwards High Vacuum Inc.	Cumberland Rd. Burlington, Ont Can	
Emerson Plastics Corp.	1383 Seabury Ave. Bronx 61	NY
Federal-Mogul Bower Bearings, Inc.	11031 Shoemaker Ave. Detroit 13	Mich
Felt Products Mfg. Co.	7450 N McCormick Blvd. Skokie	Ill
Garlock, Inc. Electronic Prods.	600 N 10th St. Camden	NJ
Hadbar, Inc.	9530 Gidley St. Rosemead	Cal
Haskell Engineering Co.	1236 S Central Ave. Glendale 4	Cal
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Johns-Manville	22 E 40th St. New York 16	NY
KEWAUNEE MFG. CO. Adv Pg 86	5083 S Center St. Adrian	Mich
Magnetic Seal Corp.	166 Bay Spring Ave. W Barrington	RI
Metallo Gasket Co.	16 Bethany St. New Brunswick	NJ
Polypenco Ltd.	68-70 Tewin Rd. Welwyn Gdn. City, Herts, England	
Raybestos-Manhattan, Inc.	Arnold & Stiegel Sts. Manheim	Pa

Roberts Toledo Rubber Co.	4143 Montoe St. Toledo 13	Ohio
Shamban & Co., W. S.	11617 W Jefferson Blvd. Culver City	Cal
Sparta Mfg Co Div U.S. Ceramic Tile Co	Dover	Ohio
Stillman Rubber Co.	5811 Marilyn Ave. Culver City	Cal
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio

OHMMETERS
See Also MEGOHMMETERS

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
Airmec, Ltd.	High Wycombe, Bucks, England	
Allied Radio Corp.	100 N Western Ave, Chicago 80	Ill
Associated Research, Inc.	3789 W Belmont Ave. Chicago 18	Ill
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Baldwin Industrial Controls	Dartford, Kent, England	
Biddle Co., James G.	1316 Arch St. Philadelphia 7	Pa
British Physical Labs.	Radlett, Herts, England	
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Cubic Corp.	5575 Kearny Villa Rd. San Diego 11	Cal
Daystrom, Inc., Weston Instruments Div.	614 Prelinghuysen Ave, Newark 13	NJ
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Electronic Instruments Ltd.	Lower Mortlake Rd. Richmond, Surrey	Eng
Epic, Inc.	150 Nassau St. New York 38	NY
Epsco, Inc.	275 Massachusetts Ave. Cambridge 39	Mass
General Meters, Inc.	Box 1701, Grand Junction	Colo
Heath Co.	Benton Harbor	Mich
Hewlett-Packard Co.	1501 Page Mill Rd, Palo Alto	Cal
Industrial Instruments, Inc.	89 Commerce Rd. Dept. N, Cedar Grove	NJ
KEITHLEY INSTRUMENTS, INC. Adv Pg 234	**12415 Euclid Ave. Cleveland 6**	**Ohio**
Kin Tel Div. Cohu Electronics, Inc.	5725 Kearny Villa Rd. San Diego 12	Cal
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Martindale Electric Co.	Box 617, Edgewater Br. Cleveland 7	Ohio
Meters, Inc.	5353 N Keystone Av. Indnpls 20	Ind
Metrix Instruments Ltd.	54 Victoria Rd, Surbiton, Surrey, Eng	
Mid-Eastern Electronics, Inc.	32 Commerce St. Springfield	NJ
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Officine Galileo	Via Carlo Bini 44, Florence, Italy	
Precision Apparatus Co. Inc.	70-31 84th St, Glendale 27	NY
Q. V. S., Inc.	20 N 15th St. E Orange	NJ
RADIO CORP. OF AMERICA, ELECTRON TUBE DIV.		
Adv Pg 131	**415 S 5th St. Harrison**	**NJ**
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Simpson Electric Co. Div. Amer Gage & Mach Co.	5208 W Kinzie St, Chicago 44	Ill
Smith-Florence, Inc.	4228 23 Ave. W, Seattle	Wash
Sticht Co. Inc., Herman H.	27 Park Pl. New York 7	NY
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
Trio Laboratories, Inc.	Plainview	NY
Triplett Electrical Instrument Co.	286 Harmon Rd. Bluffton	Ohio
WELCH MFG. CO., W.M. Adv Pg 214	**1515 Sedgwick St. Chicago 10**	**Ill**
Westinghouse Elec Corp. Instrument Dept	Newark	NJ

OPTICAL INSTRUMENTS & PARTS
See Also MICROSCOPES--OPTICAL PERISCOPES

Alfa American Corp.	303 W 42nd St, New York 36	NY
American Instrument Co. Inc.	8030 Georgia Ave, Silver Spring	Md
American Optical Co. Instrument Div.	Box A, Buffalo 15	NY
American Optical Co. Safety Prods. Div.	28 Mechanic St. Southbridge	Mass
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Bausch & Lomb Inc.	85060 Bausch St, Rochester 2	NY
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Bodson & Fils, Ets. J.	14 bis, Rue Denis Papin, Puteaux (Seine),	Fr
Buhl Optical Co.	1009 Beech Ave. Pittsburgh 33	Pa
Burke & James, Inc.	321 S Wabash, Chicago	Ill
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Crystals S. A.	Case Comavin 164, Geneva 2, Swit	
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Gaertner Scientific Corp.	1237 Wrightwood Ave. Chicago	Ill
Graflex, Inc.	3750 Monroe Ave. Rochester 3	NY
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
Hydel, Inc.	223 Crescent St. Waltham 54	Mass
Keuffel & Esser Co.	300 Adams St. Hoboken	NJ
KOLLMORGEN CORP. Adv. Pgs. 10, 11	**347 King St. Northampton**	**Mass**
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
LaPine & Co., Arthur S.	6001 S Knox Ave, Chicago 29	Ill
LENOX INSTRUMENT CO. Adv Pg 54	**2010 Chancellor St. Philadelphia 3**	**Pa**
Lerma Engineering Corp.	53 Clark Ave. Northampton	Mass
Mast Development Co, Inc.	2212 E 12th St, Davenport	Iowa
Meehanite Metal Corp.	714 North Ave, New Rochelle	NY
Optical Works Ltd.	32 The Mall, Ealing W5, England	
Pacific Transducer Corp.	11836 SW Pico Blvd. Los Angeles 64	Cal
Pittsburgh Plate Glass Co.	632 Fort Duquesne Blvd. Pittsburgh 22	Pa
Process & Instruments	15 Stone Ave. Brooklyn 33	NY
Pye & Co. Ltd., W. G.	York St. Cambridge, England	
Reichert, G. Optische Werke A. G.	Hernalser Hauptstr 219, Vienne 18, Aust	
Research Development Manufacture, Inc.	429 E Collom St. Philadelphia 44	Pa
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Spectracost, Inc.	248 Harbor Blvd. Belmont	Cal
Taylor, Taylor & Hobson Div. Rank Prec. Ind. Ltd.	Stoughton St. Leicester, England	
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 23	Pa
Wallin Optical Systems Inc.	18670 Ventura Blvd. Tarzana	Cal
WELCH MFG. CO., W.M. Adv Pg 214	**1515 Sedgwick St. Chicago 10**	**Ill**
Will Corp.	Box 1050, Rochester 3	NY

OSCILLOGRAPHS

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
Allegany Instrument Co. Inc.	1091 Wills Mountain, Cumberland	Md
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Brush Instruments Div. Clevite Corp.	37th & Perkins, Cleveland 14	Ohio
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Century Electronics & Instruments, Inc.	Box 6216, Tulsa 10	Okla
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Cossor Instruments Ltd.	Highbury Gr. London N5, England	
DuMont Labs., Allen B., Dv. Fairchild Cam & Inst Corp.	750 Bloomfield Ave. Clifton	NJ
Electro Medical Lab, Inc	South Woodstock 6	Vt
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 98, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Hathaway Instruments, Inc.	5800 E Jewell Ave. Denver 22	Colo
Helland Div. Minneapolis-Honeywell Reg Co.	5200 E Evans Ave. Denver 22	Colo
Honeywell Controls, Ltd.	Vanderhoof Ave, Toronto, Ont Canada	
LEACH CORP. Adv Pg 253	**18435 Susana Rd. Compton**	**Cal**
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Midwestern Instruments	41st & Sheridan Rd. Box 7509, Tulsa 18	Okla
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
New Electronic Products Ltd.	360 Kennington Rd. London, SE11, Eng	
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Photron Instrument Co.	6516 Detroit Ave. Cleveland 2	Ohio
Precision Apparatus Co. Inc.	70-31 84th St. Glendale 27	NY
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Southern Instruments, Ltd.	Frimley Rd. Camberley, Surrey, England	
Technology Instrument Corp.	531 Main St. Acton	Mass
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
Texas Instruments Incorporated, Geosciences & Instrumentation Div.	3609 Buffalo Speedway, Houston 6	Tex
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	

OSCILLOSCOPES

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Airmec, Ltd.	High Wycombe, Bucks, England	
Allied Radio Corp.	100 N Western Ave. Chicago 80	Ill
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Canadian Marconi Co.	2442 Trenton Ave. Montreal 16, Canada	
Cossor Instruments Ltd.	Highbury Gr. London N5, England	
DuMont Labs., Allen B., Dv. Fairchild Cam & Inst Corp.	750 Bloomfield Ave. Clifton	NJ
E. M. L.-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. Adv Pg 96	**Hayes, Middlesex, England**	
EDGERTON, GERMESHAUSEN & GRIER, INC.		
Adv Pg 251	**160 Brookline Ave. Boston 15**	**Mass**
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Electronic Tube Corp.	1200 E Mermaid Ln. Phila. 18	Pa
Hathaway Instruments, Inc.	5800 E Jewell Ave. Denver 22	Colo
Heath Co.	Benton Harbor	Mich
Hewlett-Packard Co.	1501 Page Mill Rd, Palo Alto	Cal
Hickok Electrical Instrument Co.	10501 Dupont Ave. Cleveland 8	Ohio
Jackson Electrical Instrument Co.	124 McDonough St. Dayton 2	Ohio
LEACH CORP. Adv Pg 253	**18435 Susana Rd. Compton**	**Cal**
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
LUMATRON ELECTRONICS, INC.		
Adv Pg 267	**116 County Courthouse Rd. New Hyde Park**	**NY**
Metrix Instruments Ltd.	54 Victoria Rd, Surbiton, Surrey, Eng	
Model Engineering & Mfg. Inc.	50 Frederick St. Huntington	Ind
Mullard Equipment Ltd.	Torrington Pl. London WC1, England	5544
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Nuclear Research Applications Ltd.	Bell St, Reigate, Surrey, England	

Philco Corp.	4700 Wissahickon Ave., Phila 44	Pa
Physique Industrielle S. A.	66 Bvd. de l'Imperatrice Brussels 1, Belg	
Precision Apparatus Co. Inc.	70-31 84th St. Glendale 27	NY
RADIO CORP. OF AMERICA, ELECTRON TUBE DIV. Adv Pg 131	415 S 5th St. Harrison	NJ
Rank Cintel Ltd.	Worsley Bridge Rd. London, SE 26, Eng	
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Simpson Electric Co. Div. Amer Gage & Mach Co.	5208 W Kinzie St. Chicago 44	Ill
Solartron Electronic Group Ltd.	Victoria Rd. Farnborough, Hants, Eng	
Southern Instruments, Ltd.	Frimley Rd. Camberley, Surrey, England	
Tektronix, Inc.	Box 500, Beaverton	Ore
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Triplett Electrical Instrument Co.	286 Harmon Rd. Bluffton	Ohio
Waterman Products Co., Inc.	2445-63 Emerald St. Phila 25	Pa
Waters Manufacturing, Inc.	Boston Post Rd. Wayland	Mass

OVENS
See FURNACES

PACKINGS—JOINT-SEALING
See Also GASKETS

Advanced Products Co.	59 Broadway, North Haven	Conn
Aerequip-Marman Div.	11214 W Exposition Blvd. L A 64	Cal
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Andrew Co., Otis	231 W Court St. Cincinnati 2	Ohio
Armstrong Cork Co.	Lancaster	Pa
Auburn Mfg. Co.	500 Stack St. Middletown	Conn
Chicago Gasket Co.	1271 W North Ave. Chicago 22	Ill
Crane Packing Co.	6400 Oakton St. Morton Grove	Ill
Felt Products Mfg. Co.	7450 N McCormick Blvd. Skokie	Ill
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Hadbar, Inc.	9530 Gidley St. Rosemead	Cal
Johns-Manville	22 E 40th St. New York 16	NY
Keasbey & Mattison Co.	Ambler	Pa
Penn Fibre & Specialty Co.	2020 E Westmoreland St. Philadelphia 34	Pa
Roberts Toledo Rubber Co.	4143 Montoe St. Toledo 13	Ohio
Societe Rateau	Rue Rateau La Courneuve, Seine, France	

PACKINGS—MECHANICAL
See SEALS—MECHANICAL

PAINTS—PROTECTIVE
See Also COATINGS—PROTECTIVE

Amercoat Corp.	4809 Firestone Blvd. South Gate	Cal
Arco Co.	7301 Bessemer Ave. Cleveland 27	Ohio
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
CARBOLINE CO. Adv Pg 252	32 Henley Ind. Ct. St. Louis 17	Mo
Corrosite Corp.	64 S 6th St. Brooklyn 11	NY
Dearborn Chemical Co.	Merch. Mart Plaza, Chicago 54	Ill
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Emerson & Cuming, Inc.	59 Walpole St. Canton	Mass
Glesener Co., A. J.	975 Bryant St. San Francisco 3	Cal
Glidden Co.	900 Union Commerce Bldg Cleveland 14	Ohio
Humble Oil & Ref Co. Humble Div.	Box 2180, Houston 1	Tex
Huron Industries	Box 104, Port Huron	Mich
Inertol Co. Inc.	484-7 Frelinghuysen Ave. Newark 12	NJ
Leland Paint & Varnish Co., Ltd.	Leyland, Lancashire, England	
Micro Circuits Co.	New Buffalo	Mich
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
Pennalt Chemicals Corp.	3 Penn Center, Philadelphia 2	Pa
Permagile Corp. of America	34-43 56th St. Woodside	NY
Pittsburgh Plate Glass Co.	632 Fort Duquesne Blvd. Pittsburgh 22	Pa
Polymer Corp.	2120 Fairmont Ave. Reading	Pa
Preco Chemical Corp.	589 Main St. Westbury	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Southern Corp.	Box 810, Charleston	SC
Stonhard Co. Inc.	401 N Broad St. Philadelphia	Pa
U. S. STONEWARE CO. Adv Pg 79	Akron 9	Ohio

PAPER—RECORDING

Aiden Electronic & Impulse Recording Equip. Co.	Westboro	Mass
Alfax Paper & Engineering Co.	Box 125, Westboro	Mass
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
FORRO SCIENTIFIC CO. Adv Pg 236	833 Lincoln St. Evanston	Ill
Hogan Faximile Corp. Sub. Telautograph Corp.	635 Greenwich St. New York 14	NY
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Radiation Recording Instruments	Box 1056, Sta. B, Montreal 2, Que Can	
Sensitised Coatings, Ltd.	42 Dingwall Rd. E Croydon, Surrey, Eng	
Taylor, Taylor & Hobson Div. Rank Prec. Ind. Ltd.	Stoughton St. Leicester, England	
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex

PELLETING PRESSES
See FABRICATING EQUIPMENT

PERISCOPES
See Also OPTICAL INSTRUMENTS & PARTS

Bodson & Fils, Ets. J.	14 bis, Rue Denis Papin, Puteaux (Seine), Fr	
Foster Instrument Co. Ltd.	Letchworth, Herts, England	
Gaertner Scientific Corp.	1237 Wrightwood Ave. Chicago	Ill
Graflex, Inc.	3750 Monroe Ave. Rochester 3	NY
KOLLMORGEN CORP. Adv. Pgs. 10, 11	347 King St. Northampton	Mass
LENOX INSTRUMENT CO. Adv Pg 54	2010 Chancellor St. Philadelphia 3	Pa
Lerma Engineering Corp.	53 Clark Ave. Northampton	Mass
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Optical Works Ltd.	32 The Mall, Ealing W5, England	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Taylor, Taylor & Hobson Div. Rank Prec. Ind. Ltd.	Stoughton St. Leicester, England	

pH METERS
See CONTROLS—pH
METERS—pH

PHANTOMS—RADIATION-DOSIMETRY

Abbott Laboratories	Box 1008, Oak Ridge	Tenn
Alderson Research Labs. Inc.	48-14 33 St. Long Island City 1	NY
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
EDGERTON, GERMESHAUSEN & GRIER, INC. Adv Pg 251	160 Brookline Ave. Boston 15	Mass
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
MEILLON, INC., GEORGE T. Adv Pg 252	132 Nassau St. New York 38	NY
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lübbecke, Westfalen, Germany	
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	

PHOSPHORS—SCINTILLATION
See SCINTILLATORS

PHOTOGRAPHIC FILMS FOR DOSIMETERS

Ansco Div. Gen. Anil. & Film Corp.	175 Clinton St. Binghamton	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Eastman Kodak Co.	343 State St. Rochester 4	NY
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
LANDAUER, JR. & CO., R. S. Adv Pg 256	3920 216th St. Matteson	Ill
Minimax Co.	5905 N Clark St. Chicago 26	Ill
NUCLEAR SERVICE LABS. INC. Adv Pg 222	Box 1885, Knoxville 1	Tenn
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Radiation Detection Co.	4047-49 Transport St. Palo Alto	Cal

PHOTOGRAPHIC MATERIALS FOR RECORDING INSTRUMENTS

Ansco Div. Gen. Anil. & Film Corp.	175 Clinton St. Binghamton	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Burke & James, Inc.	321 S Wabash, Chicago	Ill
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Eastman Kodak Co.	343 State St. Rochester 4	NY
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn

MINN.HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal

PHOTOGRAPHIC PLATES & EMULSIONS—NUCLEAR

Eastman Kodak Co.	343 State St. Rochester 4	NY
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	

PHOTOMETERS—FLAME

Advanced Instruments, Inc.	45N Kenneth St. Newton Highlands 61	Mass
Aloe Scientific Div. Brunswick-Balke-Collender Co.	8655 Kingsbury Blvd. St. Louis 13	Mo
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Baldwin Industrial Controls	Dartford, Kent, England	
Biddle Co., James G.	1316 Arch St. Philadelphia 7	Pa
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St, London, E. C. 2, England	
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
INSTRUMENTATION ASSOCIATES, Adv Pg 14	**17 W 60 St. New York 23**	**NY**
National Instrument Labs. Inc.	842 Evarts St. NE, Washington	DC
Perkin-Elmer Corp. Instrument Div.	Main Ave. Norwalk	Conn
Prazisionsmessgerate RSV	13b Hechendorf/Pilsensee, Germany	
Process & Instruments	15 Stone Ave. Brooklyn 33	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Water Associates	45 Franklin St. Framingham	Mass
Will Corp.	Box 1050, Rochester 3	NY

PHOTOMETERS—LIGHT-COMPARING

American Instrument Co, Inc.	8030 Georgia Ave, Silver Spring	Md
Baldwin Industrial Controls	Dartford, Kent, England	
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
INSTRUMENTATION ASSOCIATES, Adv Pg 14	**17 W 60 St. New York 23**	**NY**
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Photobell Co. Inc.	43 Vesey St. New York 7	NY
Prazisionsmessgerate RSV	13b Hechendorf/Pilsensee, Germany	
Technology Instrument Corp.	531 Main St. Acton	Mass
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Will Corp.	Box 1050, Rochester 3	NY

PHOTOMULTIPLIER TUBES
See TUBES—ELECTRON

PIPE
See PIPING & TUBING

PIPE FITTINGS & ACCESSORIES
See Also BELLOWS & EXPANSION JOINTS
FLANGES—PIPE
PIPE JOINTS—FLEXIBLE

ACF Industries, Inc.	750 3rd Ave. New York 17	NY
Aeroquip Corp.	300 S East Ave. Jackson	Mich
Aeroquip (Canada), Ltd.	287 Bridgeland Ave. Toronto 19, Ont. Can.	
Aeroquip-Marman Div.	11214 W Exposition Blvd. L A 64	Cal
Aircraft Porous Media, Inc.	Glen Cove	NY
Allmetal Screw Products Co. Inc.	821 Stewart Ave. Garden City	NY
Alloy Flange & Fitting Corp.	222 Eagle St. Brooklyn	NY
Alloy Metal Sales Ltd.	215 Lakeshore Blvd. E. Toronto 2, Can	
Aluminum Co. of America	1501 Alcoa Bldg. Pittsburgh 19	Pa
American Cast Iron Pipe Co.	Box 2603, Birmingham 2	Ala
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Autoclave Engineers, Inc.	2930 W 22 St. Erie	Pa
Babcock & Wilcox Co. Tubular Products Div.	Beaver Falls	Pa
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Birkett, Billington & Newton Ltd., T. M.	Etruria Rd. Hanley, Stoke-on-Trent, Staffs. England	
Bonney Forge & Tool Works	Cedar & Meadow Sts. Allentown	Pa
British Insulated Callender's Cables, Ltd.	21 Bloomsbury St. London, WC1, Eng	
Caird Ltd., Francis	Africa House, Kingsway, London WC 2, Eng	
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Corning Glass Works	Corning	NY
Crawford Fittings (Canada) Ltd.	605 Kent Ave. Niagara Falls, Ont. Can	
Crouse-Hinds Co. of Canada Ltd.	1160 Birchmount Rd. Scarborough, Toronto, Ontario, Canada	
Crucible Steel Co. of America	Box 2518, Pittsburgh 30	Pa
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Durapipe & Fittings, Ltd.	56 Kingsway, London, WC2, England	
Duriron Co. Inc.	450 N Findlay St. Dayton 4	Ohio
Engineering Appliances Ltd.	3 Buckingham Pl. London SW1, Eng	
Fairbanks Co., The	393 Lafayette St. New York 3	NY
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
Flight Refueling Ltd.	Tarrant Rushton Arfld. Blanford, Dorset	Eng
Flowline Corp.	New Castle	Pa
Giesener Co., A. J.	975 Bryant St. San Francisco 3	Cal
Grinnell Co.	260 W Exchange St. Providence 1	RI
Haynes Stellite Co. Div. UCC	1020 W Park Ave. Kokomo	Ind
Imperial Brass Mfg. Co.	6300 W Howard St. Chicago 48	Ill
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Johns-Manville	22 E 40th St. New York 16	NY
Keelavite Hydraulics Ltd.	Allesley, Coventry, Warwickshire, Eng	
Ladish Co.	5481 S Packard Ave. Cudahy	Wis
Logan Clay Products Co.	Box 698, Logan	Ohio
MIDWEST PIPING CO. INC. Adv Pg 71	**1450 S 2nd St. St. Louis 4**	**Mo**
Moore & Co., Samuel	Main & Orchard Sts. Mantua	Ohio
Morfax Ltd.	Willow Ln. Mitcham, Surrey, England	
Newman, Hender & Co. Ltd.	Woodchester, Stroud, Gloucester, Eng	
North British Steel Foundry Ltd.	Bathgate, W Lothian, Scotland	
OPW-Jordan	6013 Wiehe Rd. Cincinnati 13	Ohio
Parker Aircraft Co.	5827 W Century Blvd. L A 45	Cal
Pfaudler Co. Div. Pfaudler Permutit Inc.	1000 West Ave. Rochester 3	NY
PHOENIX-RHEINROHR AG, Adv Pg 276K	**August-Thyssen-Str. 1, Dusseldorf, Ger**	
PITTSBURGH PIPING & EQUIPMENT CO. Adv Pg 246	**158 49th St. Pittsburgh**	**Pa**
S. E. P. I.	4, rue de Londres, Paris 9, France	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Special Screw Products Co.	Bedford	Ohio
Speedline Fittings Div Horace T. Potts Co	Erie Ave. & D St. Philadelphia 34	Pa
STANAT MFG. CO. INC. Adv Pg 85	**511 Shames Dr. Westbury**	**NY**
SWEPCO TUBE CORP. Adv Pg 257	**1 Clifton Blvd. Clifton**	**NJ**
Talbot Stead Tube Co. Ltd.	Green Ln. Walsall, Staffs, England	
Taylor Forge & Pipe Works	Box 485, Chicago	Ill
Terrisa-Consolidated Industries	22-24 Wooster St. New York 13	NY
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa
Tube Turns Div. Chemetron Corp.	224 E Broadway, Louisville 1	Ky
Tube Turns Plastics, Inc.	2929 Magazine St. Louisville 11	Ky
Tubela Engineering Co. Ltd.	Fowler Rd. Hainault, Essex, England	
Ultek Corp.	920 Commercial St. Palo Alto	Cal
Unistrut Div. Sankey Sheldon, Ltd.	43-5 Broadwater Rd. Welwyn Garden City, Herts, Eng	
United Flexible Metallic Tubing (Canada) Ltd.	Box 149, Richmond Hill, Ont Canada	
Vanton Pump & Equipment Corp.	Bloy St. & Ramsey Ave. Hillside	NJ
Vogt Machine Co., Henry	1000 W Ormsby St. Louisville	Ky
W-K-M Div. of ACF Industries	Box 2117, Houston	Tex
Wade, Couplings, Ltd.	270 High Rd. Ilford, Essex, England	

PIPE JOINTS—FLEXIBLE
See Also BELLOWS & EXPANSION JOINTS

Aeroquip Corp.	300 S East Ave. Jackson	Mich
Aeroquip (Canada), Ltd.	287 Bridgeland Ave. Toronto 19, Ont. Can.	
Aeroquip-Marman Div.	11214 W Exposition Blvd. L A 64	Cal
Andrew Co., Otis	231 W Court St. Cincinnati 2	Ohio
Barco Mfg. Co.	500 N Hough St. Barrington	Ill
Breeze Corps. Inc.	700 Liberty Ave. Union	NJ
Caird Ltd., Francis	Africa House, Kingsway, London WC 2, Eng	
Chase Brass & Copper Co.	236 Grand St. Waterbury	Conn
Cook Electric Co. Nucleodyne Div.	3412 River Rd. Franklin Park	Ill
Croll-Reynolds Engineering Co.	1122 Main St. Stamford	Conn
Engineering Appliances Ltd.	3 Buckingham Pl. London SW1, Eng	
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
Grinnell Co.	260 W Exchange St. Providence 1	RI
Logan Clay Products Co.	Box 698, Logan	Ohio
Parker Aircraft Co.	5827 W Century Blvd. L A 45	Cal
PHOENIX-RHEINROHR AG, Adv Pg 276K	**August-Thyssen-Str. 1, Dusseldorf, Ger**	
S. E. P. I.	4, rue de Londres, Paris 9, France	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Southern Corp.	Box 810, Charleston	SC
Vokes Genspring Ltd.	Guildford, Surrey, Eng.	
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

PIPETTES

ATOMIC ACCESSORIES, INC. Adv Pg 214	**811 W Merrick Rd. Valley Stream**	**NY**
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa

Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Microchemical Specialties Co.	1825 Eastshore Hwy, Berkeley 10	Cal
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Dugrow St. Brooklyn 31	NY
Research Specialties Co.	200 S Garrard Blvd. Richmond	Cal
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr, Bloomfield	NJ
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Vogel & Cie, P.	Veyrier pres Geneve, Switzerland	
Volk Radiochemical Co.	5412 N Clark St. Chicago 40	Ill

PIPETTES—AUTOMATIC

Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Corning Glass Works	Corning	NY
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
INSTRUMENTATION ASSOCIATES, Adv Pg 14	17 W 60 St. New York 23	NY
LaPine & Co., Arthur S.	6001 S Knox Ave. Chicago 29	Ill
Microchemical Specialties Co.	1825 Eastshore Hwy, Berkeley 10	Cal
Research Specialties Co.	200 S Garrard Blvd. Richmond	Cal
Schueler & Co.	75 Cliff St. New York 38	NY
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr, Bloomfield	NJ
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Vogel & Cie, P.	Veyrier pres Geneve, Switzerland	

PIPETTORS—REMOTE

Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
ATOMIC DEVELOPMENT & MACHINE CORP. Adv Pg 128	15-04 130 St. College Point 56	NY
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
INSTRUMENTATION ASSOCIATES, Adv Pg 14	17 W 60 St. New York 23	NY
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Danville	NJ
NUCLEAR-OHIO, INC. Adv Pg 54	27195 Knickerbocker Rd. Cleveland 40	Ohio
Nuclear Science Associates	55 Manor Dr. Newark 6	NJ
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Dugrow St. Brooklyn 31	NY
Research Specialties Co.	200 S Garrard Blvd. Richmond	Cal
Vogel & Cie, P.	Veyrier pres Geneve, Switzerland	

PIPING—PRESSURE, STAINLESS STEEL

Electric Steel Foundry Co.	2141 NW 25 Ave. Portland 10	Ore
SANDUSKY FOUNDRY & MACHINE CO. Adv Pg 94	W Market St. Sandusky	Ohio
U S PIPE & FOUNDRY CO. STEEL & TUBES DIV. Adv. Pgs. 18, 19	Burlington	NJ

PIPING & TUBING

See Also PIPE JOINTS
PIPING & TUBING—LINED

1. *CARBON STEEL*
2. *CERAMIC*
3. *GLASS*
4. *HARD-RUBBER*
5. *HIGH-NICKEL ALLOY*
6. *METAL*
7. *PLASTIC*
8. *RUBBER*
9. *STAINLESS STEEL, SEAMLESS*
10. *STAINLESS STEEL, WELDED*
11. *ZIRCONIUM*

Aeroquip Corp. 7-8	300 S East Ave. Jackson	Mich
Aeroquip (Canada), Ltd. 4-7-8	287 Bridgeland Ave. Toronto 19, Ont. Can.	
ALCO PRODUCTS, INC. 5-6-9-10, Adv. Pgs. 42, 43,	Box 1065, Schenectady 5	NY
Allegheny Ludlum Steel Corp. 1-9-10-11	Oliver Bldg. Pittsburgh 22	Pa
Allied Plastics Supply Corp. 4-7-8	75 Cliff St. New York 38	NY
Allied Resinous Products, Inc. 7	Whitney Rd. & Clark St. Conneaut	Ohio
Alloy Metal Sales Ltd. 5-9-10	215 Lakeshore Blvd. E. Toronto 2, Can	
Aluminum Co. of America, 6	1501 Alcoa Bldg. Pittsburgh 19	Pa
Amercoat Corp. 7	4809 Firestone Blvd. South Gate	Cal
American Agile Corp. 7	Box 169, Bedford	Ohio
American Cast Iron Pipe Co. 1-5-6-9	Box 2603, Birmingham 2	Ala
American Hollow Boring Co. 9-11	1948 Raspberry St. Erie 4	Pa
American Metal Products Co. 1-6-9-11	5959 Lindale Ave. Detroit 4	Mich
Andrew Co., Otis, 7-8	231 W Court St. Cincinnati 2	Ohio
Atlas Titanium, Ltd. 11	Centre St. Welland, Ontario, Canada	
Autoclave Engineers, Inc. 9	2930 W 22 St. Erie	Pa
AVERY & SAUL CO. 10, Adv Pg 8	115 Rindge Ave. Cambridge	Mass
Babcock & Wilcox Co. Tubular Products Div. 5-9-10	Beaver Falls	Pa
Bachs & Co., Semon, 3	636 Greenwich St. New York 14	NY
BARNSTEAD STILL & STERILIZER CO. 6, Adv Pg 44	84 Lenoxville Terr. Boston 31	Mass
Bart Labs. & Design Inc. 5	125 Manchester Pl. Newark 4	NJ
Bart Mfg. Corp. 6-9	135 Manchester Pl. Newark 4	NJ
Bethlehem Steel Corp. 1-6-9-10	701 E 3rd St. Bethlehem	Pa
Birkett, Billington & Newton Ltd., T. M. 6	Etruria Rd. Hanley, Stoke-on-Trent, Staffs, England	
Bishop & Co., J., Platinum Works, 5-6-9-10-11	Malvern	Pa
Bram Metallurgical-Chemical Co. 5-6	820 65th Ave. Philadelphia 26	Pa
Brand, William-Rex Div. Am. Enka Corp	31 Sudbury Rd. Concord	Mass
Bridgeport Brass Co. 6-9-11	30 Grand St. Bridgeport 2	Conn
C. E. F. I. L. A. C. 9-11	30 Ave. de Messine, Paris 8, France	
Cadillac Plastic & Chemical Co. 7	15111 2nd Ave. Detroit 3	Mich
Caird Ltd., Francis, 5-9-10-11	Africa House, Kingsway, London WC 2, Eng	
Canadian Vickers Ltd. 6-9	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Carpenter Steel Co. 1-5-10	607 Washington St. Reading	Pa
Carpenter Steel Co. Alloy Tube Div. 10	Union	NJ
Centralab Div. Globe-Union, Inc. 2	900 E Keefe Ave. Milwaukee 1	Wis
Chase Brass & Copper Co. 6-9-11	236 Grand St. Waterbury	Conn
Chicago Apparatus Co. 7-8	1735 N Ashland Ave. Chicago 22	Ill
Chicago Gasket Co. 7	1271 W North Ave. Chicago 22	Ill
Combustion Engineering, Inc. 9-10	200 Madison Ave. New York 16	NY
Conneaut Rubber & Plastic Co. Div. U. S. Stoneware Co. 7	Box 621, Conneaut	Ohio
Consolidated Western Steel Div. U. S. Steel Corp. 1-6-9-10	Box 2015, Term. Ann. L A 54	Cal
Coors Porcelain Co. 2	609 9th St. Golden	Colo
Corning Glass Works, 3	Corning	NY
Crucible Steel Co. of America, 5-6-9-10-11	Box 2518, Pittsburgh 30	Pa
Curtiss-Wright Corp. Metals Processing Div. 5-6-9	Buffalo 15	NY
Damascus Tube Co. 5-9-10-11	Box 71, Greenville	Pa
Division Lead Co. 8	7742 W 61st Pl. Summit	Ill
Dow Chemical Co. 8	Midland	Mich
Du-Co Ceramics Co. 2	Box 278, Saxonburg	Pa
Durapipe & Fittings, Ltd. 7	56 Kingsway, London, WC2, England	
DYNAMIT NOBEL AG PLASTICS DIV. 7, Adv Pg 276U	Troisdorf Bez Koeln, Germany	
Emerson Plastics Corp. 7	1383 Seabury Ave. Bronx 61	NY
Evans Pipe Co. 7	23 Newport Ave. Uhrichsville	Ohio
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
Fisher Scientific Co. 3	709 Forbes St. Pittsburgh 19	Pa
Flexonics Corp. 6-9-10	1315 S 3rd Ave. Maywood	Ill
GAAA, 9-10	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Garlock, Inc. Electronic Prods, 7	600 N 10th St. Camden	NJ
General Alloys Co. 10	400 W 1st St. Boston 27	Mass
General Electric Co. Laminated Prods Dept. 7	Coshocton	Ohio
General Scientific Equipment Co. 4	Limekiln & Williams, Philadelphia 50	Pa
Gladding, McBean & Co. 2	1551 S Primrose St. Monrovia	Cal
Goodrich Co., B. F. 7-8	500 S Main St. Akron	Ohio
Gordon Co., Claud S. 1-2-5-6-9	619 W 30 St. Chicago 16	Ill
GREAT LAKES CARBON CORP. Adv Pg 31	18 E 48th St. New York	NY
Grinnell Co. 6-7-9-10	260 W Exchange St. Providence 1	RI
HARSHAW CHEMICAL CO. 3-7-8, Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
HARVEY ALUMINUM, 11, Adv Pg 93	19200 S Western Ave. Torrance	Cal
Haynes Stellite Co. Div. UCC, 5	1020 W Park Ave. Kokomo	Ind
Hodes-Lange Corp. 3	2015 95 St. North Bergen	NJ
Imperial Brass Mfg. Co. 7	6300 W Howard St. Chicago 48	Ill
Industrial Filter & Pump Mfg. Co. 1-4-5-6-7-8-9-10	5900 Ogden Ave. Cicero 50	Ill
Isolantite Mfg. Corp. 3	337 Warren Ave. Stirling	NJ
JENAER GLASWERK SCHOTT & GEN. 3, Adv Pg 276Z	10 Hattenbergstr. Mainz/Rhein W Ger	
Johns-Manville, 7	22 E 40th St. New York 16	NY
Jones & Laughlin Steel Corp. 1-6	3 Gateway Center, Pittsburgh 30	Pa
Kaiser Aluminum & Chemical Sls. Inc. 6	1924 Broadway, Oakland	Cal
KELLEY & CO., O.G. 9-10, Adv Pg 30	98 Taylor St. Boston 22	Mass
Knight Co., Maurice A.	Box 111, Akron 9	Ohio
Kobe Kogyo Corp. 3	1-5 Wadayama-Dori, Kobe, Japan	
Ladish Co. 5-6-9-10	5481 S Packard Ave. Cudahy	Wis
LaPine & Co., Arthur S. 7	6001 S Knox Ave. Chicago 29	Ill
Lapp Insulator Co. Inc. 2	169 Sumner St. LeRoy	NY
Lasher Boiler & Engineering Corp. 10	3201 S Wolcott Ave. Chicago 8	Ill
Logan Clay Products Co. 2	Box 598, Logan	Ohio
Lourdon Mfg. Div. of Ferro Corp. 2	East Liverpool	Ohio
Mackay, Inc., A. D. 6-11	198 Broadway, New York 38	NY
Markel & Sons, L. Frank, 7	School House Ln. Norristown	Pa

MIDWEST PIPING CO. INC. 6, Adv Pg 71	1450 S 2nd St. St. Louis 4	Mo
Minnesota Mining & Mfg. Co. 2-7	900 Bush Ave. St. Paul 6	Minn
Moffat Engineering Co. Ltd. 9-10	77 S Audley St. London W1, England	
Moore & Co., Samuel, 6-7	Main & Orchard Sts. Mantua	Ohio
Morgan Crucible Co. Ltd. 2	Battersea Church Rd. London SW11, Eng	
NATIONAL ANNEALING BOX CO. 5-6-10, Adv Pg 268	Washington	Pa
National Beryllia Corp. 2	4501 Dell Ave. North Bergen	NJ
NATIONAL CARBON CO. DIV. UCC, Adv. Pg. 4th Cover	270 Park Ave. New York 17	NY
National Forge Co. 1-5-9	10 Front St. Irvine, Warren County	Pa
NATIONAL LEAD CO. 6-11, Adv. Pgs. 134,135	111 Broadway, New York 6	NY
National Tank & Boiler Co. 10	7210 Polson Ln. St. Louis	Mo
National Vulcanized Fibre Co. 7	Maryland Ave & Beech Sts. Wilmington 99	Del
Nooter Corp. 5-10-11	1424 S 3rd St. St Louis 66	Mo
Norton Co. 2	1 New Bond St. Worcester 6	Mass
Nuclear Metals, Inc. 5-6-11	Box 222 Concord	Mass
Oregon Metallurgical Corp. 11	Box 484, Albany	Ore
Penn Fibre & Specialty Co. 7	2020 E Westmoreland St. Philadelphia 34	Pa
PHOENIX-RHEINROHR AG, 1-7-9-10, Adv Pg 276K	August-Thyssen-Str. 1, Dusseldorf, Ger	
Phoenix Steel Corp. 1-5	121 Bridge St. Phoenixville	Pa
Plowden & Thompson Ltd. 3	Stourbridge, Worcs, England	
Polymer Corp. 7	2120 Fairmont Ave. Reading	Pa
Posen & Kline Tube Co., Inc. 1-5-6-9-10	Whitehall & Twnship, Line Norristown	Pa
PRECISION EXTRUSIONS INC. 6, Adv Pg 248	720 E Green Ave. Bensenville	Ill
Precision Tube Co. Inc. 5-6-9-10	Church Rd & Wissahickon Ave. N Wales	Pa
Presray Corp. 8	Pawling	NY
Randolph Co. 7	1018 Rosine St. Houston 19	Tex
Raybestos-Manhattan, Inc. 7	Arnold & Stiegel Sts. Manheim	Pa
Republic Rubber Div. Lee Rubber & Tire Corp. 8	Youngstown	Ohio
Republic Steel Corp. 1-6-7-9-10	Republic Bldg. Cleveland 1	Ohio
Readel Corp. 7	Box 217 Rio Grande	NJ
Roberts Toledo Rubber Co. 8	4143 Montoe St. Toledo 13	Ohio
Rolock Inc. 5	1350 Kings Hwy. Fairfield	Conn
Rollo-Hardy & Co. Ltd. 7-10	Paddockhall Rd. Haywards Heath, Sussex,	Eng
Ryerson & Son, Inc., Jos. T. 6-7-9-10	16 & Rockwell Sts. Chicago 8	Ill
S. E. P. I. 5-6-9-10	4, rue de Londres, Paris 9, France	
SAINT GOBAIN, 3-7, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
SANDUSKY FOUNDRY & MACHINE CO. 1-6-9, Adv Pg 94	W Market St. Sandusky	Ohio
Scovill Mfg. Co. Mills Div. 6	99 Mill St. Waterbury 20	Conn
Semi-Alloys Inc. 5-6-11	550 S Fulton Ave. Mt. Vernon	NY
Shamban & Co., W. S. 7	11617 W Jefferson Blvd. Culver City	Cal
SHOWA DENKO K. K. 2-7, Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
Siemens-Planis Chem. Fabrik	Griesheim, Meitingen uber Augsburg, Ger	
Smith Corp., A. O., Atomic & Process Equip. Div. 10	3533 N 27 St. Milwaukee 1	Wis
SMITH TUBE CORP. 5-9-10, Adv Pg 133	75 N Maple Ave. Ridgewood	NJ
Snyder Mfg. Co. Inc.	Box 464, New Philadelphia	Ohio
Solar Aircraft Co. 2-9-10	2200 Pacific Hwy. San Diego 12	Cal
Southern Corp. 7	Box 810, Charleston	SC
Southern Lead Rolling Co. 6-7	Box 6195, Dallas 22	Tex
Sparta Mfg Co Div US Ceramic Tile Co 7	Dover	Ohio
Stackpole Carbon Co.	St. Marys	Pa
Standard Tube Co. 1-5-6-10	24400 Plymouth Rd. Detroit 39	Mich
Stearns-Roger Mfg. Co. 6	Box 5888, Denver 17	Colo
Steel & Alloy Tank Co. 10	Pt. Bessemer St. Newark 5	NJ
Steels Engrg Installations Ltd 5-6-7-9-10	Sunderland, Durham, England	
Steinmuller GmbH, L. & C. 9-10	Gummersbach, Rheinland, Germany	
Stillman Rubber Co. 4	5811 Marilyn Ave. Culver City	Cal
Sun Shipbuilding & Dry Dock Co. 10	Foot of Morton Ave. Chester	Pa
SUPERIOR TUBE CO. 5-6-9-10-11, Adv Pg 28	Box 191, Norristown	Pa
SWEPCO TUBE CORP. 5-6-10, Adv Pg 257	1 Clifton Blvd. Clifton	NJ
Synthane Corp. 7	River Rd. Oaks	Pa
Talbot Stead Tube Co. Ltd. 9-10	Green Ln, Walsall, Staffs, England	
Taylor Fibre Co. 7	Norristown 40	Pa
Taylor Forge & Pipe Works. 10	Box 485, Chicago	Ill
Terrisa-Consolidated Industries. 10	22-24 Wooster St. New York 13	NY
Texas Instruments Incorportated, 6	6000 Lemmon Ave. Dallas 9	Tex
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), 6-11, Adv Pg 2	Box 898, Attleboro	Mass
Thermal Refractories Corp. 2	4501 Dell Ave. North Bergen	NJ
Thomas Co., Arthur H. 3-7-8	Vine St. at 3rd, Philadelphia 5	Pa
Thompson, Ltd., John	Wolverhampton, England	
Thompson Products Ltd. 5-9-11	St. Catharines, Ont Canada	
Trio Machine Works, Inc. 1-5-6-9-10	3045 N 3rd St. Philadelphia 33	Pa
TUBE METHODS, INC. 5-9-10, Adv Pg 92	Depot & Rambo Sts. Bridgeport	Pa
Tube Reducing Corp. 1-5-6-9-10-11	520 Main Ave. Wallington	NJ
Tube Turns Plastics, Inc. 7	2929 Magazine St. Louisville 11	Ky
Ugine-Gueugnon, 10	16 rue de La Ville-L'Eveque, Paris 8, Fr	
Union Steel Corp. 5-9-10	1550 Ashwood Terr. Union	NJ
United Carbon Products Co. Inc.	Box 747, Bay City	Mich
U S PIPE & FOUNDRY CO. STEEL & TUBES DIV. 1-9, Adv. Pgs. 18, 19	Burlington	NJ
U. S. STEEL CORP. 1-6-7-8-9-10, Adv. Pgs. 56, 57	525 Wm. Penn Pl. Pittsburgh 30	Pa
U. S. STONEWARE CO. 7, Adv Pg 79	Akron 9	Ohio
Vanton Pump & Equipment Corp. 7	Bloy St. & Ramsey Ave. Hillside	NJ
VAR-LAC-OID CHEMICAL CO. 11, Adv Pg 265	116 Broad St. New York 4	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
WALL TUBE & METAL PRODUCTS CO. 9-10, Adv Pg 60	Box 330, Newport	Tenn
Walsco Electronics Mfg. Co. Div. Textron, Inc. 7	400 S Wyman St. Rockford	Ill
Weatherhead Co. 8	128 W Washington Blvd. Fort Wayne	Ind
Western Gold & Platinum Co. 2	525 Harbor Blvd. Belmont	Cal
Will Corp. 3-7-8	Box 1050, Rochester 3	NY
Wilmad Glass Co. 3	Rt. 40 & Oak Rd. Buena	NJ
Wisconsin Centrifugal Foundry, Inc. 5-9	905 E St. Paul Ave. Waukesha	Wis
WOLVERINE TUBE DIV. CALUMET & HECLA, INC. 11, Adv Pg 91	17260 Southfield Rd. Allen Park	Mich

PIPING & TUBING—LINED

1. GLASS-LINED
2. PLASTIC-LINED
3. RUBBER-LINED

Allied Plastics Supply Corp. 2-3	75 Cliff St. New York 38	NY
Avondale Shipyards, Inc. 3	Box 1030, New Orleans 8	La
Borden Chemical Co. 2	350 Madison Ave. New York 17	NY
Canadian Vickers Ltd. 3	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Dow Chemical Co. 2	Midland	Mich
DYNAMIT NOBEL AG PLASTICS DIV. 2, Adv Pg 276U	Troisdorf Bez Koeln, Germany	
Flexaust Co. 2-3	100 Park Ave. New York 17	NY
Industrial Filter & Pump Mfg. Co. 2-3	5900 Ogden Ave. Cicero 50	Ill
Lead Fabricators, Inc. 2-3	25 Belgrove Dr. Kearny	NJ
Maritime Chemical & Repair Corp. 3	423 Hamilton Ave. Brooklyn 32	NY
Pfaulder Co Div Pfaudler Permutit Inc 1-2	1000 West Ave. Rochester 3	NY
PHOENIX-RHEINROHR AG, 2, Adv Pg 276K	August-Thyssen-Str. 1, Dusseldorf, Ger	
Raybestos-Manhattan, Inc. 2	Arnold & Stiegel Sts. Manheim	Pa
Resistoflex Corp. 2	Woodland Rd. Roseland	NJ
SAINT GOBAIN, 1-2, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Schueler & Co. 2	75 Cliff St. New York 38	NY
Southern Corp. 2	Box 810, Charleston	SC
Steels Engrg. Installations Ltd. 2-3	Sunderland, Durham, England	
Tube Turns Plastics, Inc. 12	2929 Magazine St. Louisville 11	Ky

PLANCHETS

Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
ISOTOPE DEVELOPMENTS LTD. Adv Pg 239	Beth Rd. Reading, Berks, England	
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Planchets	Box 216 Chelsea	Mich
Servonuclear Corp.	28-21 Astoria Blvd. Long Island City	NY
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 298, Burbank	Cal
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	

PLANT-SITE LOCATION

See SERVICES: SITE LOCATION

PLANTS & FACILITIES—NUCLEAR

See POWER PLANTS—NUCLEAR

PLASTICS

See Also CONTAINERS—PLASTIC
PIPING & TUBING

Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Allied Plastics Supply Corp.	75 Cliff St. New York 38	NY
Allied Resinous Products, Inc.	Whitney Rd. & Clark St. Conneaut	Ohio
American Agile Corp.	Box 168, Bedford	Ohio
American Products Mfg. Co. Inc.	8127-33 Oleander St. New Orleans 18	La
Anchor Plastics Co. Inc.	36-36 36th St. LIC 6	NY
Armstrong Cork Co.	Lancaster	Pa
Atkins & Merrill, Inc.	Post Rd. South Sudbury	Mass
Berk & Co. Ltd., F. W., Coatings Div.	Brent Cres. N Circular Rd. London NW 10, England	

Cadillac Plastic & Chemical Co.	15111 2nd Ave. Detroit 3	Mich
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Chemical Development Corp.	Endicott St. Danvers	Mass
Chicago Gasket Co.	1271 W North Ave. Chicago 22	Ill
Conneaut Rubber & Plastic Co. Div. U. S. Stoneware Co.	Box 621, Conneaut	Ohio
Continental-Diamond Fibre Corp.	Newark	Del
Devcon Corp.	Endicott St. Danvers	Mass
Dow Chemical Co.	Midland	Mich
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Duriron Co. Inc.	450 N Findlay St. Dayton 4	Ohio
DYNAMIT NOBEL AG PLASTICS DIV. Adv Pg 276U	**Troisdorf Bez Koeln, Germany**	
Emerson & Cuming, Inc.	59 Walpole St. Canton	Mass
Emerson Plastics Corp.	1383 Seabury Ave. Bronx 61	NY
Erie Resistor Corp.	644 W 12th St. Erie	Pa
Esso Standard Div. Humble Oil & Ref Co.	15 W 51st St. New York 19	NY
Garde Mfg. Co.	58 John St. Cumberland	RI
Gaslock, Inc. Electronic Prods.	600 N 10th St. Camden	NJ
General Electric Co. Laminated Prods Dept.	Coshocton	Ohio
Goodrich Chemical Co., B. F.	3135 Euclid Ave. Cleveland 15	Ohio
Haveg Industries, Inc.	900 Greenbank Rd. Wilmington 8	Del
Hooker Chemical Corp.	Niagara Falls	NY
Hysol, Inc.	Olean	NY
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Koppers Co. Inc. Nuclear Prods. Sec.	Pittsburgh 19	Pa
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Mason, Shaver & Rhoades, Inc.	Box 551, Irwin	Pa
Mica Insulator Div. MMM	797 Broadway, Schenectady 1	NY
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
Panelyte Div. St. Regis Paper Co.	Enterprise Ave. Trenton	NJ
PECHINEY, Adv Pg 105	**23 Rue Balzac, Paris, Seine, France**	
Penn Fibre & Specialty Co.	2020 E Westmoreland St. Philadelphia 34	Pa
PERMALI, INC. Adv Pg 59	**Box 718, Mt. Pleasant**	**Pa**
PILOT CHEMICALS, INC. Adv Pg 66	**Dept. N, 36 Pleasant St. Watertown 72**	**Mass**
Pittsburgh Plate Glass Co.	632 Fort Duquesne Blvd. Pittsburgh 22	Pa
Plastimayd Corp.	2204 SE 7th Ave. Portland 14	Ore
Polymer Corp.	2120 Fairmont Ave. Reading	Pa
Polypenco Ltd.	68-70 Tewin Rd. Welwyn Gdn. City, Herts, England	
Reichhold Chemicals, Inc.	525 N Broadway, White Plains	NY
Republic Rubber Div. Lee Rubber & Tire Corp.	Youngstown	Ohio
Resdel Corp.	Box 217 Rio Grande	NJ
Resistoflex Corp.	Woodland Rd. Roseland	NJ
Ryerson & Son, Inc., Jos. T.	16 & Rockwell Sts. Chicago 8	Ill
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
SEMI-ELEMENTS INC. Adv Pg 98	**Saxonburg Blvd. Saxonburg**	**Pa**
Shamban & Co., W. S.	11617 W Jefferson Blvd. Culver City	Cal
SHOWA DENKO K. K. Adv Pg 276W	**34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan**	
Sparta Mfg Co Div U.S. Ceramic Tile Co	Dover	Ohio
SPENCER CHEMICAL CO. Adv Pg 88	**500 Dwight Bldg. Kansas City 5**	**Mo**
Synthane Corp.	River Rd. Oaks	Pa
Taylor Fibre Co.	Norristown 46	Pa
Westlake Plastics Co.	W Lenni Rd. Lenni Mills	Pa
Yonkers Industrial Plastic Products Co.	49 W 33rd St. New York 1	NY

PLASTICS—IRRADIATED

Allied Plastics Supply Corp.	75 Cliff St. New York 38	NY
Canadian Radium & Uranium Corp.	630 5th Ave. New York 20	NY
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
Radiation Dynamics Inc.	Westbury Industrial Pk. Westbury	NY
Raychem Corp.	Oakside at Northside, Redwood City	Cal
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
SHOWA DENKO K. K. Adv Pg 276W	**34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan**	
Westlake Plastics Co.	W Lenni Rd. Lenni Mills	Pa

PNEUMATIC DISPATCH SYSTEMS

Airmatic Systems Corp.	441 Market St. Saddle Brook	NJ
BELGONUCLEAIRE, Adv Pg 128	**35 rue des Colonies, Bruxelles 1, Belgium**	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	

PNEUMATIC MECHANISMS

Aero Supply Mfg. Co. Inc.	Corry	Pa
Airmatic Valve, Inc.	7313 Associate Ave. Cleveland 9	Ohio
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
BRISTOL CO. Adv Pg 110	**Box 1790 HBG, Waterbury 20**	**Conn**
Conoflow Corp.	2100 Arch St. Philadelphia 3	Pa
Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn
Cornelius Co. Aero Div.	550 39 Ave. NE, Minneapolis 21	Minn
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
De Vilbiss Co.	300 Phillips Ave. Toledo 1	Ohio
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Evans & Son (Portsmouth) Ltd., J. Marcyn Wks.	Goldsmith Ave. Portsmouth, Hants, Eng	
EX-CELL-O CORP. Adv. Pgs. 62, 63	**1200 Oakman Blvd. Detroit 32**	**Mich**
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
Johnson Service Co.	Milwaukee 1	Wis
Kahn & Company, Inc.	Box 516 Hartford 1	Conn
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
OPW-Jordan	6013 Wiehe Rd. Cincinnati 13	Ohio
Parker Aircraft Co.	5827 W Century Blvd. L A 45	Cal
Presray Corp.	Pawling	NY
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Rousseau Controls Ltd.	640 Decourcelle St. Montreal, Que. Can.	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
TELEFLEX INC. Adv Pg 118	**Church Rd. North Wales**	**Pa**
Vard	2961 E Colorado, Pasadena	Cal
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

POCKET DOSIMETERS

See DOSIMETERS—RADIATION

POTENTIOMETERS & RHEOSTATS

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Ace Electronics Associates, Inc.	99 Dover St. Somerville 44	Mass
Allen-Bradley Co.	136 W Greenfield Ave. Milwaukee 4	Wis
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
Biddle Co., James G.	1316 Arch St. Philadelphia 7	Pa
Bourns, Inc.	Box 2112, Riverside	Cal
Bryans Aeroquipment Ltd.	Willow Ln. Mitcham, Surrey, England	
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Central Scientific Co.	1700 Irving Park Rd. Chicago 13	Ill
Clark Controller Co.	1146 E 152 St. Cleveland 10	Ohio
Clarostat Mfg. Co. Inc.	Dover	NH
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Dale Products, Inc.	Box 488, Columbus	Neb
Daven Co.	530 W Mt. Pleasant Ave. Livingston	NJ
Electro-Scientific Industries	7524 SW Macadam Ave. Portland	Ore
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Fairchild Controls Corp.	225 Park Ave. Hicksville	NY
Fernsteuergerate OHG	68-72 Jahnstr. Berlin-Britz, Germany	
Foster Instrument Co. Ltd.	Letchworth, Herts, England	
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
General Radio Co.	West Concord	Mass
Helipot Div. Beckman Instruments, Inc.	2500 Fullerton Rd. Fullerton	Cal
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Link Div. - Gen. Precision, Inc.	Binghamton	NY
Litton Industries	336 N Foothill Rd. Beverly Hills	Cal
Mallory & Co., Inc. P. R.	3029 E Washington St. Indnpls. 6	Ind
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Model Rectifier Corp.	1675 Utica Ave. Brooklyn 34	NY
Morgan Crucible Co. Ltd.	Battersea Church Rd. London SW11, Eng	
N.S.F. Ltd.	31-32 Alfred Pl. London, W.C. 1, Eng	
Ohmite Mfg. Co.	3601 Howard St. Skokie	Ill
Reon Resistor Corp.	155 Saw Mill River Rd. Yonkers	NY
Servomechanisms Inc.	200 Aviation Blvd. El Segundo	Cal
Spectrol Electronics Corp.	1704 S Del Mar Ave. San Gabriel	Cal
Technology Instrument Corp.	531 Main St. Acton	Mass
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
Waltham Precision Instrument Co.	221 Crescent St. Waltham 54	Mass
Ward Leonard Electric Co.	115 MacQuesten Pkwy S. Mt. Vernon	NY
Waters Manufacturing, Inc.	Boston Post Rd. Wayland	Mass
WELCH MFG. CO., W.M. Adv Pg 214	**1515 Sedgwick St. Chicago 10**	**Ill**
Zenith Electric Co. Ltd.	Villiers Rd. London, NW2, England	

POWDER-METALLURGICAL EQUIPMENT
See Under METALLURGICAL EQUIPMENT
FABRICATING EQUIPMENT
FURNACES—SINTERING

POWER PLANT COMPONENTS
See CONDENSERS—POWER-PLANT
CONTROL EQUIPMENT—POWER-PLANT
COOLING TOWERS
DEAERATORS
DEMINERALIZERS
FANS & BLOWERS
HEAT EXCHANGERS
HEATERS—FEEDWATER
ION-EXCHANGE EQUIPMENT
POWER PLANTS—NUCLEAR
REACTORS—NUCLEAR
RECOMBINERS—HYDROGEN & OXYGEN
STEAM GENERATORS—POWER-PLANT
SUPERHEATERS—POWER-PLANT
TRAPS
TURBINES
VALVES
WATER CONDITIONERS

POWER PLANTS—NUCLEAR
See Also REACTORS
1. DESIGN
2. CONSTRUCTION

AEG, 1-2, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
ALCO PRODUCTS, INC. 1-2, Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
ALLIS-CHALMERS MFG. CO. 1-2, Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Alsthom, Nuclear Div. 1-2	38, Ave. Kleber, Paris 16, France	
Associated Nucleonics Inc. 1-2	975 Stewart Ave. Garden City	NY
ASTRA, INC. 1, Adv Pg 235	Box 226, Raleigh	NC
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 1-2, Adv Pg 276AA	Charleroi, Belgium	
Atomics International Div. NAA, 1-2	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. 1, Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd. 1-2	209 Euston Rd, London NW 1, England	
Bechtel Corp. 1-2	220 Bush St. San Francisco 4	Cal
BELGONUCLEAIRE, 1-2, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Braun & Co., C. F. 1-2	1000 S Fremont Ave. Alhambra	Cal
Burns & Roe, Inc. 1-2	160 W Broadway, New York 13	NY
Canadian GE Co. Ltd. 1-2	107 Park St, Petersborough, Ont Can	
Canadian Vickers Ltd. 2	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Catalytic Construction Co. 1-2	1528 Walnut St. Philadelphia 2	Pa
Chiyoda Chemical Eng & Const Co Ltd 2	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Commonwealth Associates, Inc. 1	209 E Washington Ave. Jackson	Mich
Condenser Service & Engrg. Co. Inc. 2	150 Observer Hwy, Hoboken	NJ
Consolidated Western Steel Div. U. S. Steel Corp. 1-2	Box 2015, Term. Ann. L A 54	Cal
Cross-Malaker Laboratories, 1	191 Mill Ln. Mountainside	NJ
Crouse-Hinds Co. of Canada Ltd. 2	1160 Birchmount Rd. Scarborough, Toronto, Ontario, Canada	
Dravo Corp. 1-2	Dravo Bldg. Pittsburgh 22	Pa
Foster Wheeler Ltd. 2	Box 430, St. Catharines, Ontario, Can.	
Fuji Electric Mfg. Co. Ltd. 1-2	2-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
GAAA, 1-2	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. 1-2, Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 1-2, Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, 1-2, Adv Pg 276BB	Erith, Kent, England	
General Nuclear Engineering Corp. 1	Box 265, Dunedin	Fla
Gilbert Associates, Inc. 1-2	525 Lancaster Ave. Reading	Pa
Hawker Siddeley Nuclear Power Co Ltd 1	Sutton Ln, Langley, Nr. Slough, Bucks	Eng
Hitachi, Ltd. 1-2	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Humphreys & Glasgow Ltd. 1-2	22 Carlisle Pl. London SW1, England	
INDATOM, 1-2, Adv Pg 276F	48 rue de la Bootie, Paris 8, France	
Interatom, GmbH, 1-2	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. 1, Adv Pg 233	7 N Brentwood Blvd. Clayton 5	Mo
Irwin & Partners Ltd., E. G. 1-2	2 Princes Row, Buckingham Palace Rd, London, SW1, England	
Kaiser Engineers 1-2	300 Lakeside Dr. Oakland 12	Cal
Loftus Corp. Peter F. 1	First Natl. Bank Bldg. Pittsburgh 22	Pa
Marquardt Corp. 1	16555 Saticoy St. Van Nuys	Cal
MARTIN CO. NUCLEAR DIV. 1-2, Adv Pg 5	Mail G-3037 Baltimore 3	Md
Maryland Shipbuilding & Drydock Co. 2	Box 537, Baltimore 3	Md
Maxon Construction Co. Inc. 2	2600 Far Hills Ave. Dayton 19	Ohio
NUCLEAR DEVELOPMENT CORP. OF AMERICA, 1, Adv Pg 32	5 New St. White Plains	NY
NUCLEAR SERVICE CONSULTANTS, INC. 1, Adv Pg 133	650 11th Ave. New York 36	NY
Nuclear Technology Corp. 1	Irvington	NY
Patterson Moos Research Div. Lessons Corp. 1	90-28 Van Wyck Expwy. Jamaica 18	NY
PIONEER SERVICE & ENGINEERING CO. 1, Adv Pg 102	231 S La Salle St. Chicago 4	Ill
Sargent & Lundy, 1	140 S Dearborn St. Chicago 3	Ill
Societe Fives-Penhoet, 2	360 rue Saint-Honore, Paris 1, France	
Societe Rateau, 1-2	Rue Rateau La Courneuve, Seine, France	
Stearns-Roger Mfg. Co. 1-2	Box 5888, Denver 17	Colo
Stone & Webster Engineering Corp. 1-2	49 Federal St. Boston 7	Mass
Thompson, Ltd., John	Wolverhampton, England	
TOKYO SHIBAURA ELECTRIC CO., LTD. 1-2, Adv Pg 276D	12 Yurako-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TOSI, S.p.A., FRANCO, 2, Adv Pg 276T	Legnano, Milan, Italy	
VITRO CORP. OF AMERICA, 1, Adv. Pgs. 213, 276H	261 Madison Ave. New York 36	NY
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT. 1, Adv. Pgs. 138, 139, 140	Forest Hills	Pa
Yuba Consolidated Industries, Inc. 1-2	1 Bush St. San Francisco 4	Cal

POWER SUPPLIES
See Also BATTERIES—NUCLEAR
1. CURRENT, REGULATED
2. HIGH-VOLTAGE (>10kv)
3. HIGH-VOLTAGE (1-10kv)
4. HIGH-VOLTAGE, REGULATED
5. LOW-VOLTAGE (10-1,000 VOLTS)

AEG, 1-2-3-4-5, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd. 2-5	33 Grosvenor Pl. London SW1, Eng	
Acme Electric Corp. 1-2-3-4-5	31 Water St. Cuba	NY
Advance Components Ltd. 4-5	Roebuck Rd. Hainault, Essex, England	
Aircraft Ground Equipment, 1-5	160 Blackswarth Rd. Bristol, Eng.	
Airmec, Ltd. 5	High Wycombe, Bucks, England	
Alsthom, Nuclear Div. 1-2-3-4-5	38, Ave. Kleber, Paris 16, France	
American Electronic Labs. Inc. 5	121 N 7th St. Philadelphia 6	Pa
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD. 4, Adv Pg 240	34-01 30th St. LIC 6	NY
AMP Inc. 1-2-3-4-5	Eisenhower Blvd. Harrisburg	Pa
AMP Inc. Capitron Div. 1-2-3-4-5	155 Park St. Elizabethtown	Pa
Amplifier Corp. of America, 5	396 Broadway, New York 13	NY
Arnold Magnetics Corp. 1-2-3-4-5	6050 W Jefferson Blvd. L A 16	Cal
Associated Research, Inc. 2-3-4	3789 W Belmont Ave. Chicago 18	Ill
Associated Specialties Co. 5	1751 Main St. Orefield	Pa
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 2-3-4-5, Adv Pg 276AA	Charleroi, Belgium	
Atomasters-Buntaine Corp. 3-4	111 W Jewel Ave. St. Louis 22	Mo
Autocon Ind. Inc. Div. Automatic Control Co. 5	995 University Ave. St. Paul 4E	Minn
Aveley Electric, Ltd. 1-5	S. Ockendon, Essex, England	
BAIRD-ATOMIC, INC. 2-3-4, Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bell Telephone Mfg Co. Nuc Energy Dv. 4-5	Berkenrodelei 75, Antwerp, Belgium	
Beva Laboratory, Inc. 2-3-4-5	185 4th Ave. Trenton 8	NJ
Biotronics Labs. Inc. 4	Box 744, Sta. B, Montreal 2, P.Q. Can	
Bracke-Seib X-Ray Co. Inc. 2-3	16 Pelham Bay Park W, Pelham Manor	NY
Brown & Associates, Inc., W. A. 1-2-3-4-5	Box 286, Indian River City	Fla
Burr-Brown Res. Corp. 5	Box 6444, Tucson	Ariz
Cawkell Research & Electronics Ltd. 5	Scotts Rd. Southall, Middlsx, Eng	
Central Transformer Co. 2-3	900 W Jackson Blvd. Chicago 7	Ill
Chance Vought Electronics Div. 1-2-3-4-5	Box 5907, Dallas 22	Tex
Christie Electric Corp. 5	3410 W 67 St. Los Angeles 43	Cal
Colorado Research Corp. 3-4-5	Broomfield	Colo
COMPONENTS CORP. NUCLEAR INSTRUMENT DIV. 1-3-4, Adv Pg 263	106 Main St. Denville	NJ
Cornell-Dubilier Electronics Div. Fed. Pacific Elec. Co. 1-5	1605 Rodney French Blvd. New Bedford	Mass
COSMIC, INC. 2, Adv Pg 133	1028 Connecticut Ave. Washington 6	DC
Cosmic Radiation Labs., Inc. 4-5	1645 Montauk Hwy. Bellport	NY
Curtis Nuclear Corp. 3-4-5	1645 W 135th St. Gardena	Cal
Daven Co. 1-3-4-5	530 W Mt. Pleasant Ave. Livingston	NJ
DEL ELECTRONICS CORP. 2-3-4, Adv Pg 268	521 Homestead Ave. Mount Vernon	NY
Deltron, Inc. 1-4-5	4th & Cambria Sts. Philadelphia 33	Pa
Djoco Div. Djordjevic Engrg. Co. 1-2-3-4-5	1933 N Damen, Chicago 47	Ill
Dressen-Barnes Corp. 1-5	250 N Vinedo Ave. Pasadena 8	Cal
Dynage, Inc. 1	75 Laurel St. Hartford	Conn
Dynatron Radio Ltd. 4	St. Peter's Rd. Furse Platt, Maidenhead, Berks, Eng	
Eagle-Picher Co. 1-2-3-4-5	American Bldg. Cincinnati	Ohio
Elcor Div. Scranton Corp. 1-5	4059 W North Ave. Chicago 39	Ill
ELCOR, INC. 4-5, Adv Pg 14	1225 W Broad St. Falls Church	Va

Electro Engineering Works, 2-3-4-5	401 Preda St, San Leandro	Cal
Electro Products Labs, 5	4501 N Ravenswood Ave, Chicago 40	Ill
Electromechanical Products, 1-3-4-5	Markham Rd. Agincourt, Ont. Can.	
ELECTRONIC ASSOCIATES, INC. 1,		
Adv Pg 55	Long Branch	NJ
Electronic Measurements Co. Inc. 1-4-5	Lewis St. & Maple Ave. Eatontown	NJ
Electronic Research Associates, Inc. 1-3-5	67 Factory Pl. Cedar Grove	NJ
Electronic Systems Development Corp 1-5	1484 E Main St. Ventura	Cal
Electronic Tube Corp. 1-2-3-4	1200 E Mermaid Ln, Phila. 18	Pa
Engineered Electronics Co. 5	1441 E Chestnut Ave. Santa Ana	Cal
English Electric Co. Ltd. 2-3-4-5	Eng. Elec. Hse. Strand, London WC2	Eng
Epsco, Inc. 1-5	275 Massachusetts Ave. Cambridge 39	Mass
Fansteel Metallurgical Corp. 1-5	North Chicago	Ill
Farnell Instruments, Ltd. Light Ind. Est. 5	York Rd. Wetherby, England	
Feedback, Ltd. 5	1 The Broadway, Crowborough, Sussex, Eng	
Fluke Mfg. Co. Inc. John, 1-2-3-4-5	Box 7161, Seattle 33	Wash
Foster Transformers Ltd. 1-2-3-4-5	8 Wimbledon Morden Rd, London, SW19, Eng	
Franklin Systems, Inc. 3-4-5	2734 Hillsboro Rd. W Palm Beach	Fla
Freed Transformer Co., Inc. 5	1718 Weirfield St. Brooklyn 27	NY
FRIESEKE & HOEPFNER GmbH, 3-4,		
Adv Pg 276N	Erlangen-Bruck, Germany	
Garrett Corp. 1-5	9851 Sepulveda Blvd. L A 45	Cal
General Meters, Inc. 2-3-4-5	Box 1701, Grand Junction	Colo
General Radio Co. 5	West Concord	Mass
Georator Corp. 5	315 Tudor Ln, Manassas	Va
Grand Transformers, Inc. 1-5	Marion & Beech Tree Sts. Grand Haven	Mich
Gyra Electronics Corp. 1-2-3-4-5	Box 184 La Grange	Ill
HAMMER ELECTRONICS CO. 3-4-5,		
Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
Harvey Electronics Ltd. 5	273 Farnborough Rd. Farnboro, Hants	Eng
Hathaway Instruments, Inc. 1-2-3-4-5	5800 E Jewell Ave, Denver 22	Colo
Heath Co. 5	Benton Harbor	Mich
Hermetic Seal Transformer Co., Div. Dresser Industries, Inc. 1-2-3-4-5	555 N 5th St. Garland	Tex
Hewlett-Packard Co. 5	1501 Page Mill Rd, Palo Alto	Cal
HIGH VOLTAGE ENGINEERING CORP. 2,		
Adv Pg 146	5 Bedford St. Burlington	Mass
Hydel, Inc. 5	223 Crescent St. Waltham 54	Mass
Intercontinental Dynamics Corp. 5	170 Coolidge Ave. Englewood	NJ
International Research Associates, 1-2-3-4-5	5438 W North Ave, Chicago 39	Ill
Interstate Electronics Corp. 3-4-5	707 E Vermont Ave, Anaheim	Cal
INTERTECHNIQUE S.A. 3-4-5,		
Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
ISOTOPE DEVELOPMENTS LTD. 4,		
Adv Pg 239	Both Rd. Reading, Berks, England	
Itek Corp.	128 Spring St. Lexington	Mass
JOHNSON & ASSOC. INC., WILLIAM B. 2-3-4,		
Adv Pg 255	Box 415 Mountain Lakes	NJ
JOHNSTON LABS. INC., WILLIAM H. 3-4-5,		
Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
Jordan Electronics, 5	Alhambra	Cal
Joy Mfg. Co. Industrial Div. 5	H. W. Oliver Bldg. Pittsburgh 22	Pa
Kahn & Company, Inc. 2-3-5	Box 516 Hartford 1	Conn
KAMAN NUCLEAR, 2-3, Adv Pg 258	Box 3217, No. End Sta. Colorado Springs	Colo
KEITHLEY INSTRUMENTS, INC. 3-4-5,		
Adv Pg 234	12415 Euclid Ave. Cleveland 6	Ohio
KEPCO INC. 1-3-4-5, Adv Pg 266	131-38 Sanford Ave. Flushing 52	NY
Kilovolt Corp. 1-2-3-4	2 Manor House Sq. Yonkers	NY
Kinney Vacuum Div. The N. Y. Air Brake Co. 1-2-3-4-5	3639 Washington St. Boston 30	Mass
Kin Tel Div. Cohu Electronics Inc. 3-4-5	5725 Kearny Villa Rd. San Diego 12	Cal
Kobe Kogyo Corp. 3-4-5	1-5 Wadayama-Dori, Kobe, Japan	
Koppers Co. Inc. Nuclear Prods. Sec. 2	Pittsburgh 19	Pa
Laben, 3-5	Via Amadeo 41, Milano, Italy	
Labgear Ltd. Nucleonics Div. 5	Cromwell Rd, Cambridge, England	
Lab. Prof. Dr. Berthold, 4	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
Lambda Electronics Corp. 5	11-11 131st St. College Point 56	NY
LEACH CORP. 1-3-4-5, Adv Pg 253	18435 Susana Rd. Compton	Cal
Leeds & Northrup Co. 5	4936 Stenton Ave. Phila 44	Pa
Lexmath, Inc. 5	Oak Dr, Syosset	NY
Leland Airborne Products Div. AMF, 1-2-3-4-5	Box 128, Vandalia	Ohio
L'Electronique Appliquee, 1-2-3-4-5	25 rue du Docteur Finlay, Paris 15, Fr	
Levinthal Electronic Products, Inc. 1-2-3-4	3180 Hanover St. Palo Alto	Cal
Lockheed Aircraft Corp. 1-2-3-4-5	Box 551 Burbank	Cal
LOCKHEED NUCLEAR PRODUCTS, 4,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Lundell & Co. 1-2	7356 S Woodlawn Ave. Chicago 19	Ill
Magnatran, Inc. 2-3-5	248 Schuyler Ave, Kearny	NJ
Magnetic Research Corp. 1-5	3160 W El Segundo Blvd. Hawthorne	Cal
Mallory & Co., Inc., P. R. 5	3029 E Washington St, Indnpls, 6	Ind
Manson Laboratories, Inc. 2-3-4-5	375 Fairfield Ave, Stamford	Conn
Marquardt Corp. 1-2-3-4-5	16555 Saticoy St, Van Nuys	Cal
Matthew Laboratories, 1-3-4-5	3344 Fort Independence St. N Y 63	NY
Metrix Instruments Ltd, 1-5	54 Victoria Rd, Surbiton, Surrey, Eng	
Microchemical Specialties Co. 3-4-5	1825 Eastshore Hwy, Berkeley 10	Cal
Mid-Eastern Electronics, Inc. 1-5	32 Commerce St. Springfield	NJ
Miles Hivolt Ltd. 1-2-3-4-5	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co. Con Dev Div. 1-5	2753 4th Ave. S, Minpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, 1-5,		
Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Minn-Honeywell Military Prods Group, 3-4-5	2600 Ridgway Rd. Minneapolis 13	Minn
Model Rectifier Corp. 5	1675 Utica Ave. Brooklyn 34	NY
Moloney Electric Co. 2-3	5390 Bircher Blvd, St. Louis 20	Mo
Motorsearch Co, 3-4-5	1600 Junction Ave, Racine	Wis
N. J. E. Corp. 1-2-3-4-5	20 Boright Ave, Kenilworth	NJ
Navigation Computer Corp. 1-5	1621 Snyder Ave. Philadelphia 45	Pa
Network Industries Inc. 1-4-5	Box 397, Bayonne	NJ
Neutronic Associates Inc. 1-2-3-4	32 Tennessee Ave. Hempstead	NY
New London Instrument Co. 5	Box 189 New London	Conn
Newport Instruments (Scientific & Mobile) Ltd. 1	Crawley Rd, Newport Pagnell, Bucks, Eng	
Nihon-Musen, K. K. 3	930 Kamirenjaku, Mitaka, Tokyo, Jap	
Norsir, Div. Northrop Corp. 1-2-4	1001 E Broadway, Hawthorne	Cal
North Hills Electronics, Inc. 1-3-4-5	Alexander Pl. Glen Cove	NY
Northeast Scientific Corp. 1-2-3-4-5	30 Wetherbee St. Acton	Mass
Nothelfer Winding Labs, 2-3-4	220 Ewingville Rd. Trenton 8	NJ
NUCLEAR DATA, INC. 3, Adv Pg 237	911 Regent St. Madison	Wis
NUCLEAR-ELECTRONICS CORP. 3-4,		
Adv Pg 6	2925 N Broad St. Philadelphia 32	Pa
Nuclear Enterprises (GB) Ltd, 3	Bankhead Medway, Edinburgh 11, Scot	
Nuclear Research Applications Ltd, 1-2-3-4	Bell St, Reigate, Surrey, England	
Oerlikon Engineering Co. 1-2-3-4-5	Zurich 50, Switzerland	
Oregon Electronic Mfg. Co. 1-5	2105 SE 6th St. Portland 14	Ore
Ovitron Corp. 1-5	37-05 48 Ave, Long Island City	NY
Pacific Capacitors, Inc. 1-2-3-5	2620 N Clybourn Ave. Chicago 14	Ill
Pacific Electric Motor Co. 1	1009 66th Ave. Oakland 21	Cal
PACKARD INSTRUMENT CO. INC. 3,		
Adv Pg 227	Box 428, La Grange	Ill
Perkin Engineering Corp. 2-3-4-5	345 Kansas St. El Segundo	Cal
Peschel Electronics, Inc. 2-3-4-5	RFD 1, Patterson	NY
Philbrick Researches, Inc., G. A. 1	127 Clarendon St. Boston 16	Mass
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 1-2-3-4-5, Adv Pg 267	Eindhoven, The Netherlands	
Physique Industrielle S. A. 3-4-5	66 Bvd. de l'Imperatrice Brussels 1, Belg	
Plessey Nucleonics Ltd. 5	Weedon Rd. Northampton, England	
Poetschke & Co. oHG 3-4-5	Box 2766, Frankfurt/Main 1, Germany	
Power Sources, Inc. 1-3-4-5	Northwest Ind. Pk. South Ave. Burlington	Mass
Prazisionsmessgerate RSV, 2-3-4-5	15b Hechendorf/Pilsensee, Germany	
RS Electronics Corp. 2-3	435 Portage Ave, Palo Alto	Cal
RADIATION COUNTER LABS. INC. 3-4,		
Adv Pg 39	5122 W Grove St. Skokie	Ill
Radiation Dynamics Inc. 2	Westbury Industrial Pk. Westbury	NY
RADIATION INSTRUMENT CO. 3-4-5,		
Adv Pg 72	Box 733, Silver Spring	Md
RADIATION INSTRUMENT DEVELOPMENT LAB. 3-4-5,		
Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS. 1-2-3-4,		
Adv Pg 70	Front & Cooper Sts. Camden 2	NJ
Ramage & Miller, Inc. 1-2-3-4-5	3221 Florida Ave. Richmond	Cal
Rank Cintel Ltd. 2-3-4	Worsley Bridge Rd. London, SE 26, Eng	
Rapid Electric Co. 5	2881 Middletown Rd. New York	NY
Raytheon Co. Commer Appar. & Sys Div. 1-2-3-4-5	1415 Boston-Prov. Tnpk. Norwood	Mass
Ridgefield Instrument Group Schlumberger Corp. 5	Ridgefield	Conn
S. A. I. P. 1-2-3-4	38 Rue Gabriel Cria, Malakoff, Seine	Fr
Sangamo Electric Co. 1-2-3-4-5	11 & Converse Sts. Springfield	Ill
Servonuclear Corp. 3-4	28-21 Astoria Blvd. Long Island City	NY
Siemens-Reiniger-Werke AG, 4	Luipoldstr. 45, Erlangen, Germany	
Smith-Florence, Inc. 3-4-5	4228 23 Ave. W, Seattle	Wash
Sola Electric Co. 5	Busse Rd. at Lunt, Elk Grove	Ill
Solartron Electronic Group Ltd. 5	Victoria Rd, Farnborough, Hants, Eng	
Sorensen & Co. Inc. 1-2-3-4	Richards Ave. South Norwalk	Conn
Special Instruments Lab, Inc. 5	312 W Vine Ave, Knoxville 02	Tenn
SPELLMAN HIGH VOLTAGE CO. 1-2-3-4,		
Adv Pg 254	3029 Webster Ave. Bronx 67	NY
Statham Instruments, Inc. 5	13401 W Olympic Blvd. LA 64	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp. 1-2-3-4-5	100 Carlson Rd. Rochester	NY
Superior Electric Co., The, 5	83 Laurel St. Bristol	Conn
TECHNICAL ASSOCIATES, 3-4, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TECHNICAL MEASUREMENT CORP. 3-4,		
Adv Pg 215	441 Washington Ave. North Haven	Conn
Telechrome Mfg. Corp. 1-2-3-4-5	28 Ranick Dr. Amityville	NY
Telectro Industries Corp. 1-2-3-4-5	35-16 37th St. LIC 1	NY
Telemechanics Ltd Telemax Wks, 2-3-4	Broisonford Ln. Totton, Southampton, Eng	
TERMINAL RADIO INTERNATIONAL LTD. 1-2-3-4-5,		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. 2-5, Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TRACERLAB INC. 1-2-4-5,		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Transformer Electronics Co. 3-4-5	Boulder Ind. Park, Boulder	Colo

Transformers, Inc. 2-3-4	200 Stage Rd. Vestal	NY
Transonic, Inc. 1-4-5	808 16th St. Box 59, Bakersfield	Cal
Trio Laboratories, Inc. 5	Plainview	NY
Trott Electronics, Inc. 3-4-5	412 Smith St. Rochester 8	NY
Universal Transistor Products Corp. 2-3-4-5	36 Sylvester St. Westbury	NY
Valor Instruments, Inc. 1-5	13214 Crenshaw Blvd. Gardena	Cal
Varian Associates, 2	611 Hansen Way, Palo Alto	Cal
Varo Mfg. Co. Inc. 1-2-3-4-5	2201 Walnut St. Garland	Tex
Vickers, Inc. Electric Products Div. 1-5	1815 Locust St. St. Louis 3	Mo
VICTOREEN INSTRUMENT CO. 3-4, Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
Walsh Associates, Charles, 4	Box 244, Deerfield	Ill
Waltham Electronics Corp. 1	751 Main St. Waltham	Mass
Weltronic Co. 1	19500 W 8 Mile Rd. Detroit 43	Mich
Westinghouse Electric Corp. 1-2-3-4-5	Box 2278, Pittsburgh 30	Pa
Yuba Consolidated Industries, Inc. 1-2-3-4-5	1 Bush St. San Francisco 4	Cal
Zentralwerkstatt Gottingen GmbH, 1-2-3-4-5	Box 624, Gottingen, W Germany	

PREAMPLIFIERS

ACF Industries, Inc.	750 3rd Ave. New York 17	NY
AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Ad-Yu Electronics Lab. Inc.	249 Terhune Ave. Passaic	NJ
Aerialite, Ltd. Castle Wks.	Stalybridge, Cheshire, England	
Airpax Electronics Inc.	Box 8488, Fort Lauderdale	Fla
Alden Electronic & Impulse Recording Equip. Co.	Westboro	Mass
Allied Radio Corp.	100 N Western Ave. Chicago 80	Ill
American Electronic Labs. Inc.	121 N 7th St. Philadelphia 6	Pa
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD. Adv Pg 240	34-01 30th St. LIC 6	NY
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	Charleroi, Belgium	
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomium Corp.	940 Main St. Waltham	Mass
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bell Telephone Mfg. Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Brown & Associates, Inc., W. A.	Box 285, Indian River City	Fla
Bruel & Kjaer	Linde Alle 23, Naerum, Den	
Burr-Brown Res. Corp.	Box 6444, Tucson	Ariz
Cawkell Research & Electronics Ltd.	Scotts Rd. Southall, Middlsx. Eng	
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Chesapeake Instrument Corp.	Shadyside	Md
Colorado Research Corp.	Broomfield	Colo
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	Box 748, Fort Worth	Tex
Cosmic Radiation Labs., Inc.	1645 Montauk Hwy. Bellport	NY
Cossor Instruments Ltd.	Highbury Gr. London N5, England	
Cubic Corp.	5575 Kearny Villa Rd. San Diego 11	Cal
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Daven Co.	530 W Mt. Pleasant Ave. Livingston	NJ
Djeco Div. Djordjevic Engrg. Co.	1933 N Damen, Chicago 47	Ill
E. M. L.-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. Adv Pg 96	Hayes, Middlesex, England	
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Electronic Systems Development Corp.	1484 E Main St. Ventura	Cal
Electronic Tube Corp.	1200 E Mermaid Ln. Phila. 18	Pa
Epsco, Inc.	275 Massachusetts Ave. Cambridge 39	Mass
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Franklin Systems, Inc.	2734 Hillsboro Rd. W Palm Beach	Fla
FRIESEKE & HOEPFNER GmbH, Adv Pg 276H	Erlangen-Bruck, Germany	
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Gyra Electronics Corp.	Box 184 La Grange	Ill
HRB-Singer, Inc.	Circleville Rd. State College	Pa
Hallamore Electronics Div.	714 Brookhurst, Anaheim	Cal
HAMNER ELECTRONICS CO. Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
Heath Co.	Benton Harbor	Mich
Instrument & Development Prods Co. Inc.	355 W 109th Pl. Chicago	Ill
Instruments for Industry, Inc.	99 New South Rd. Hicksville	NY
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
ISOTOPE DEVELOPMENTS LTD. Adv Pg 239	Bath Rd. Reading, Berks, England	
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
Jordan Controls Inc.	3235 W Hampton Ave. Milwaukee 9	Wis
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kin Tel Div. Cohu Electronics, Inc.	5725 Kearny Villa Rd. San Diego 12	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
LEACH CORP. Adv Pg 253	18435 Susana Rd. Compton	Cal
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Magnetic Amplifiers Div. Siegler Corp.	632 Tinton Ave. New York 55	NY
Magnetic Instruments Co. Inc.	637 Commerce St. Thornwood	NY
Magnetic Research Corp.	3160 W El Segundo Blvd. Hawthorne	Cal
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Midwestern Instruments	41st & Sheridan Rd. Box 7509, Tulsa 18	Okla
Minn-Honeywell Reg Co. Com Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR DATA, INC. Adv Pg 237	911 Regent St Madison	Wis
NUCLEAR-OHIO, INC. Adv Pg 54	27105 Knickerbocker Rd. Cleveland 40	Ohio
Offner Electronics Inc.	3938 River Rd. Schiller Park	Ill
PACKARD INSTRUMENT CO. INC. Adv Pg 227	Box 428, La Grange	Ill
Paraplegics Mfg. Co. Inc.	304 York Rd. Bensenville	Ill
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	Eindhoven, The Netherlands	
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
RS Electronics Corp.	435 Portage Ave. Palo Alto	Cal
RADIATION COUNTER LABS. INC. Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Radio City Products Co.	Centre & Glendale Rds. Easton	Pa
S. A. I. P.	38 Rue Gabriel Cne. Malakoff, Seine	Fr
Scott, Inc., H. H.	111 Powder Mill Rd. Mayard	Mass
Servonuclear Corp	28-21 Astoria Blvd. Long Island City	NY
SHARP LABORATORIES, INC. Adv Pg 248	Box 1302, La Jolla	Cal
Siemens-Reiniger-Werke AG.	Luipoldstr. 45, Erlangen, Germany	
Smith-Florence, Inc.	4228 23 Ave. W, Seattle	Wash
SOLID STATE RADIATIONS, INC. Adv Pg 44	9925 W Jefferson Blvd. Culver City	Cal
Southern Instruments, Ltd.	Frimley Rd. Camberley, Surrey, England	
Spencer-Kennedy Labs. Inc.	1320 Soldiers Field Rd. Boston 35	Mass
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TECHNICAL MEASUREMENT CORP. Adv Pg 215	441 Washington Ave. North Haven	Conn
Tektronix, Inc.	Box 500, Beaverton	Ore
Telecro Industries Corp.	35-16 37th St. LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
TOKYO SHIBAURA ELECTRIC CO., Ltd. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
Universal Nuclear Corp.	178-03 Hillside Ave. Jamaica 32	NY
Varo Mfg. Co. Inc.	2201 Walnut St. Garland	Tex
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
VICTOREEN INSTRUMENT CO. Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal
Zentralwerkstatt Gottingen GmbH	Box 624, Gottingen, W Germany	

PRESSES
See FABRICATING EQUIPMENT

PRESSURE GAGES
See CONTROLS-PRESSURE
GAGES-PRESSURE

PRESSURE VESSELS-REACTOR
See VESSELS-PRESSURE, REACTOR

PRESSURIZERS-REACTOR

ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Autoclave Engineers, Inc.	2930 W 22 St. Erie	Pa
AVERY & SAUL CO. Adv Pg 8	115 Rindge Ave. Cambridge	Mass

BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	Dept H B, Philadelphia 42	Pa
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
KELLEY & CO., O. G. Adv Pg 30	98 Taylor St. Boston 22	Mass
Lasker Boiler & Engineering Corp.	3201 S Wolcott Ave. Chicago 8	Ill
NATIONAL ANNEALING BOX CO. Adv Pg 268	Washington	Pa
National Forge Co.	10 Front St. Irvine, Warren County	Pa
New York Shipbuilding Corp.	Camden 1	NJ
Nooter Corp.	1494 S 3rd St. St. Louis 66	Mo
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
SANDUSKY FOUNDRY & MACHINE CO. Adv Pg 94	W Market St. Sandusky	Ohio
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St. Milwaukee 1	Wis
Societe Fives-Penhoet	340 rue Saint-Honore, Paris 1, France	
U S PIPE & FOUNDRY CO. STEEL & TUBES DIV. Adv. Pgs. 18, 19	Burlington	NJ
Westinghouse Elec Corp. Steam Div.	Lester	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

PROCESS-CONTROL EQUIPMENT
See CONTROLS

PROPORTIONAL COUNTERS
See COUNTERS—RADIATION

PROTECTIVE COATINGS
See COATINGS—PROTECTIVE
PAINTS—PROTECTIVE

PULSE-HEIGHT ANALYZERS
See ANALYZERS—PULSE-HEIGHT

PULSERS

American Electronic Labs. Inc.	121 N 7th St. Philadelphia 6	Pa
Arenberg Ultrasonic Lab. Inc.	94 Green St. Jamaica Plain 30	Mass
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Cosmic Radiation Labs., Inc.	1646 Montauk Hwy, Bellport	NY
Electrical & Physical Instr. Corp. (EPIC)	42-19 27th St. Long Island City 1	NY
HAMNER ELECTRONICS CO. Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Levinthal Electronic Products, Inc.	3180 Hanover St. Palo Alto	Cal
Magnetic Research Corp.	3160 W El Segundo Blvd. Hawthorne	Cal
RADIATION COUNTER LABS. INC. Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT CO. Adv Pg 72	Box 733, Silver Spring	Md
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 2761	61 E North Ave. Northlake	Ill
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Servonuclear Corp.	28-21 Astoria Blvd, Long Island City	NY

PULVERIZERS
See MILLS

PUMPS
See Also FANS & BLOWERS
VACUUM EQUIPMENT

1. *CANNED-MOTOR*
2. *CANNED-ROTOR*
3. *CENTRIFUGAL*
4. *CENTRIFUGAL, MECHANICALLY SEALED*
5. *CONTROLLED-LEAKAGE*
6. *DIAPHRAGM*
7. *DIFFUSION*
8. *ELECTROMAGNETIC*
9. *GAS-FILLED*
10. *METERING*
11. *SUBMERSED-MOTOR*
12. *VACUUM*

A.E.I. LTD. INSTRUMENTATION DIV. 12, Adv Pg 2768	Crown House, Aldwych, London WC2	Eng
Air-Shields, Inc. 6-12	Hatboro	Pa
Airmatic Valve, Inc. 10	7313 Associate Ave. Cleveland 9	Ohio
Allen Sons & Co, Ltd., W. H., Queens Eng. Wks. 3-4	Bedford, England	
Allied Engineering & Production Corp. 10	2421 Blanding Ave. Alameda	Cal
ALLIS-CHALMERS MFG. CO. 1-2-3-4-12, Adv. Pgs. 45, 47	925 S 70th St. Milwaukee 1	Wis
Aloe Scientific Div. Brunswick-Balke-Collender Co. 12	5655 Kingsbury Blvd. St. Louis 13	Mo
American Instrument Co, Inc. 3-6-12	8030 Georgia Ave. Silver Spring	Md
Arbeitsgemeinschaft Reaktorpumpen Halberg-Weise, 1-2-3-11	Treitschkestr. 3, Heidelberg, Ger	
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 1-2-3-4-5-11-12, Adv Pg 276AA	Charleroi, Belgium	
Aurora Pump Div. NY Air Brake Co. 3-4	619 Loucks St. Aurora	Ill
Avien, Inc. 6-10	59-15 Northern Blvd. Woodside 77	NY
B-I-F Industries, Inc. 6-10	530-D Harris Ave. Providence 1	RI
Babcock-Wilcox & Goldie-McCulloch Ltd. 3-4	Coronation Blvd. Galt, Ont. Can.	
Bart Labs. & Design Inc. 3-4	125 Manchester Pl. Newark 4	NJ
Beach-Russ Co. 12	420 Lexington Ave. New York 17	NY
Bean, John Div. FMC, 10	1303 S Cedar St. Lansing	Mich
Bingham Pump Co. 3-4-5-12	2800 NW Front Ave. Portland 10	Ore
Bristol Siddeley Engines, Ltd. 9	Mercury House, Knightsbridge, London SW7, England	
Buffalo Pumps Div. Buffalo Forge Co. 1-2-3-4-5-11	North Tonawanda	NY
Byron Jackson of Canada Ltd 1-2-3-4-11	Box 180, Sta. H, Toronto 13, Ont. Can	
BYRON JACKSON PUMPS, INC. 1-2-3-4-5-9-11, Adv. Pgs. 24, 25	2300 E Vernon Ave. LA 54	Cal
Canadian Westinghouse Co, Ltd. 1	Box 510, Hamilton, Ontario, Canada	
Central Scientific Co. 12	1700 Irving Park Rd. Chicago 13	Ill
Chempump Div Fostoria Corp. 1-2-3-11	Dept D-20, Buck & County Line Rd Huntingdon Valley	Pa
Chemtrol, 4	404 W Central, Santa Ana	Cal
Chicago Apparatus Co. 12	1735 N Ashland Ave. Chicago 22	Ill
Consolidated Electrodynamics Corp. 12	360 Sierra Madre Villa, Pasadena	Cal
Consolidated Engines & Machy Co, Ltd, 1-2-3-4-5-6-10-11-12	5645 Pare St. Mt. Royal, Montreal, Can	
Consolidated Vacuum Corp. 12	1775 Mt. Read Blvd. Rochester	NY
Corley Co. Inc. 1-2-3-11	685 Myrtle Ave. Boonton	NJ
COSMIC, INC. 12, Adv Pg 123	1828 Connecticut Ave. Washington 6	DC
Dayton Electric Mfg. Co. 3-11	126 S Oakley Blvd. Chicago 12	Ill
Dean Brothers Pumps Inc. 3-4	323 W 10 St, Indianapolis	Ind
Deming Co. 3-11	Broadway Ave. Salem	Ohio
De Vilbiss Co. 6	300 Phillips Ave. Toledo 1	Ohio
Dorr-Oliver Inc. 3-4-6	77 Havemeyer La. Stamford	Conn
Dunham-Bush, Inc. 3-4-12	179 South St. West Hartford 10	Conn
Duriron Co. Inc. 3-4	450 N Findlay St. Dayton 4	Ohio
Eastern Industries, Inc. 3-11	100 Skiff St. Hamden	Conn
Eco Engineering Co. 4-10-11	12 New York Ave. Newark 1	NJ
Edwards High Vacuum Inc. 12	Cumberland Rd. Burlington, Ont Can	
Electro-Nucleonics Inc. 12	Box 707, Caldwell	NJ
English Electric Co, Ltd. 8	Eng. Elec. Hse. Strand, London WC2	Eng
Ertel Engineering Corp. 3	Kingston 31	NY
Fischer & Porter Co. 10	50 Warminster Rd. Warminster	Pa
Fisher Scientific Co. 12	709 Forbes St. Pittsburgh 19	Pa
FLIGHT REFUELING INC. 3, Adv Pg 133	Box 1701, Baltimore 3	Md
GAAA, 8	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Garrett Corp. 3	9851 Sepulveda Blvd. L A 45	Cal
Gast Mfg. Corp. 12	Box 117-M, Benton Harbor	Mich
Gelman Instrument Co. 3-12	106 N Main St. Chelsea	Mich
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 8, Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Goodenough Pumps Ltd. 3-4-6	112 Jermyn St, London SW1, England	
Hamworthy Engineering Ltd. 3-4	Poole, Dorset, England	
HARSHAW CHEMICAL CO. 3-12, Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Hayward Tyler & Co, Ltd. 1-2-3-4-11	82 Pall Mall, London, W1, England	
Heatron, Inc. 3	Box 54, York	Pa
Hevi-Duty Electric Co. Div. Basic Products Corp. 12	Box 863, Milwaukee 1	Wis
High Vacuum Equipment Corp. 12	2 Churchill Rd. Hingham	Mass
Hills McCanna Co. 6-10	4805 W Touhy Ave. Chicago 46	Ill
Holley Carburetor Co, 3-4	11955 E 9 Mile Rd, Warren	Mich
Industrial Filter & Pump Mfg. Co, 3-4-6-10-12	5900 Ogden Ave. Cicero 50	Ill
Ingersoll-Rand Co, 1-7-11-12	11 Broadway, New York 4	NY
International Pump & Machine Works, 12	81 Doris Ave, Livingston	NJ
Ipsen Industries, Inc. 7-12	Box 500, Rockford	Ill
JENAER GLASWERK SCHOTT & GEN. 7, Adv Pg 276Z	10 Hattenbergstr. Mainz/Rhein W Ger	
Johnston Pump Co, Div. Youngstown Sheet & Tube Co, 3-4-5-9-11	3272 E Foothill Blvd. Pasadena	Cal
Joy Mfg. Co. Industrial Div. 12	H. W. Oliver Bldg. Pittsburgh 22	Pa
Kinney Vacuum Div. The N. Y. Air Brake Co. 7-8-12	3539 Washington St. Boston 30	Mass
Kobe Kogyo Corp. 7-12	1-5 Wadayama-Dori, Kobe, Japan	
Ladish Co, 3	5481 S Packard Ave. Cudahy	Wis
LaPine & Co., Arthur S, 12	6001 S Knox Ave. Chicago 29	Ill
Lapp Insulator Co. Inc. 5-6-10	159 Sumner St. LeRoy	NY
Lawrence Pumps, Inc. 5-11	371 Market St. Lawrence	Mass

Layne & Bowler, Inc, 3-4-11	Box 6697, Hollywood Sta, Memphis 8	Tenn
Leybold's Nachfolger, E. 7-12	Bonner Str. 504, Koln-Bayenthal, Ger	
Liquid Metals, Inc. 8	Box 2666, Westford	Mass
Litton Engineering Labs. 7	Box 949, Grass Valley	Cal
MSA Research Corp. 8	Callery	Pa
Meehanite Metal Corp. 2-3-6-7-11-12	714 North Ave, New Rochelle	NY
Metering Pumps Ltd. 10	21 The Mall, Ealing, London, W5, Eng	
Mico Instrument Co. 12	80 Trowbridge St. Cambridge 38	Mass
N. G. N. Electrical Ltd, 7-12	Ave. Parade, Accrington, Lanc, England	
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. 7-12, Adv Pg 136	**80 Cherlemont St. Newton Highlands 61**	**Mass**
Nagle Pumps, Inc. 3-4	1249 Center Ave, Chicago Hgts	Ill
Nash Engineering Co. 12	450 Wilson Rd. S Norwalk	Conn
NATIONAL CARBON CO. DIV. UCC, 3-4, Adv. Pg. 4th Cover	**270 Park Ave. New York 17**	**NY**
New York Air Brake Co. 3-4-7-12	230 Park Ave. New York 17	NY
Norair, Div. Northrop Corp. 8	1001 E Broadway, Hawthorne	Cal
Northey Rotary Compressors Ltd. 12	Alder Rd. Parkstone, Poole, Dorset, Eng	
Officine Galileo, 7-12	Via Carlo Bini 44, Florence, Italy	
Orenda Engines Ltd, 1-2-3-4-5	Box 4015, Term A, Toronto, Canada	
Pacific Pumps, Inc. 3-4-5	5715 Bickett St. Huntington Park	Cal
PEERLESS PUMP HYDRODYNAMICS DIV. FOOD MACHINERY & CHEMICAL CORP. 3-4-3-11, Adv Pg 236	**301 West Ave. 26, Los Angeles 31**	**Cal**
Pesco Products Div, Borg-Warner Corp 3-11-12	24700 N Miles Rd. Bedford	Ohio
Plenty & Son Ltd. Eagle Iron Works	Newbury, Berks, England	
Precision Chemical Pump Corp. 6-10	1396 Main St. Waltham	Mass
Process & Instruments, 10	15 Stone Ave. Brooklyn 33	NY
Pulsomer Engineering Co. Ltd. Nine Elms Iron Wks. 3-6-7-12	Reading, England	
Quincy Compressor Co. 12	217 Maine St. Quincy	Ill
Randolph Co. 5	1018 Rosine St. Houston 19	Tex
Research Vacuum Supply Co. 4-7-12	6712 N Clark St. Chicago	Ill
Robbins & Myers, Inc. 1-2-10-11	1345 Lagonda Ave. Springfield	Ohio
Rockwell Co., W. S. 6	200 Eliot St. Fairfield	Conn
Roots-Connersville Blower Div, Dresser Industries, Inc. 12	900 W Mount St. Connersville	Ind
Rousseau Controls Ltd. 10	640 Decourcelle St. Montreal, Que. Can.	
SAINT GOBAIN, 3-6, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Schmidt Instrument Co.	Box 111, San Carlos	Cal
Schueler & Co. 10	75 Cliff St. New York 38	NY
Sethco Mfg. Corp. 1-4	2284 Babylon Tnpk, Merrick	NY
Shriver & Co. Inc., T. 6	864 Hamilton St. Harrison	NJ
Simmonds Precision Products, Inc. 10	105 White Plains Rd. Tarrytown	NY
Societe Rateau, 1-2-3-4-5-11	Rue Rateau La Courneuve, Seine, France	
Standard Scientific Supply Corp. 12	808 Broadway, New York 3	NY
STOKES CORP., F. J. 7-12, Adv Pg 85	**5500 Tabor Rd. Philadelphia 20**	**Pa**
Sulzer Bros. 1-2-3-4-5-11	Winterthur, Switzerland	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, 1-2-5-6-11, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
TOKYO SHIBAURA ELECTRIC CO., LTD. 1, Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
Turbocraf: Inc. 3-4-5	492 E Union St. Pasadena	Cal
Ultek Corp. 12	920 Commercial St. Palo Alto	Cal
Union Pump Co. 3-4-5-10-12	87 Capital Ave, SW, Battle Creek	Mich
U. S. STEEL CORP. 3, Adv. Pgs. 56, 57	**525 Wm. Penn Pl. Pittsburgh 30**	**Pa**
Vacuum Instrument Corp. 12	Huntington Station	NY
Vacuum Metallurgical Developments, Ltd, 7-12	Shelford, Cambridge, England	
Vacuum Research (Cambridge) Ltd. 7	Quayside, Bridge St. Cambridge, Eng	
Vanton Pump & Equipment Corp, 3-4-5-6-11	Bloy St. & Ramsey Ave. Hillside	NJ
Varian Associates, 12	611 Hansen Way, Palo Alto	Cal
Vickers, Inc. Div. Sperry-Rand Corp. Marine & Ordnance Dept. 1-10	Waterbury 20	Conn
Wallace & Tiernan, Inc, 6-10	25 Main St. Belleville 9	NJ
Warren Pumps, Inc. 3-4-10	Warren	Mass
WELCH MFG. CO., W.M. 12, Adv Pg 214	**1515 Sedgwick St. Chicago 10**	**Ill**
WESTINGHOUSE ELEC CORP. ATOMIC EQUIP. DEPT. 1-2-3-9-10-11, Adv. Pgs. 138, 139, 142, 143	**Cheswick**	**Pa**
Westinghouse Elec Corp. Pwr Control & Comm Dept. 1-2	East Pittsburgh	Pa
Wheeler Mfg. Co. C. H. 1-3-4-9-11-12	1d50 Sedgley Ave. Philadelphia 32	Pa
Whittaker Controls Div. Telecomputing Corp. 3-4-6-11	915 N Citrus, LA	Cal
Whittaker Hall & Co. (1929) Ltd. 12	Radcliffe, Manchester, England	
Will Corp. 3-7-12	Box 1050, Rochester 3	NY
Willamette Iron & Steel Co. 3-4-5-12	280 NW Front Ave. Portland	Ore
WORTHINGTON CORP. 1-2-3-4-5-12, Adv. Pgs. 22, 23	**401 Worthington Ave. Harrison**	**NJ**

PURIFIERS—WATER
See DEMINERALIZERS
WATER CONDITIONERS

PYROMETERS

Atlantic Pyrometers, Inc.	190 Warburton Ave, Hawthorne	NJ
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co, Ltd.	5010 St. Catherine St. W, Montreal, Que	Can
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
BRISTOL CO. Adv Pg 110	**Box 1790 NBG, Waterbury 20**	**Conn**
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Degussa	Frankfurt/Main, Germany	
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Epic, Inc.	150 Nassau St. New York 38	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Foster Instrument Co, Ltd.	Letchworth, Herts, England	
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Harvey Electronics Ltd.	273 Farnborough Rd. Farnboro, Hants	Eng
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Illinois Testing Labs, Inc.	420 N La Salle St. Chicago	Ill
Instrument Development Labs, Inc.	67 Mechanic St. Attleboro	Mass
J-B-T Instruments, Inc.	133 Hamilton St, New Haven 8	Conn
Leeds & Northrup Co.	4936 Stenton Ave, Phila 44	Pa
Lewis Engineering Co.	338 Church St. Naugatuck	Conn
Meters, Inc.	5353 N Keystone Av. Indnpls 20	Ind
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Pacific Transducer Corp.	11836 SW Pico Blvd. Los Angeles 64	Cal
Pyrometer Instrument Co. Inc.	92 Portland Ave. Bergenfield	NJ
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Sticht Co. Inc., Herman H.	27 Park Pl. New York 7	NY
Technique Associates Div. Duncan Electric Co.	1413 Cornell Ave. Indianapolis	Ind
Thermo Electric Co. Inc.	Saddle Brook	NJ
Thermolyne Corp.	465 Huff St. Dubuque	Iowa
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
West Instrument Corp.	4363 W Montrose Ave. Chicago 41	Ill
Will Corp.	Box 1050, Rochester 3	NY

QUARTZ—FUSED

Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Corning Glass Works	Corning	NY
Emerson & Cuming, Inc.	59 Walpole St. Canton	Mass
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Engis Equipment Co.	431 S Dearborn St, Chicago	Ill
General Electric Co. Lamp Glass Dept.	Willoughby	Ohio
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
Microchemical Specialties Co.	1825 Eastshore Hwy, Berkeley 10	Cal
Quartz & Silice	8 rue d'Anjou, Paris, France	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Syncor Products Co.	30 Eastern Ave, Malden 48	Mass
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
THERMAL AMERICAN FUSED QUARTZ CO. INC. Adv Pg 50	**18-20 Salem St. Dover**	**NJ**
Wilmad Glass Co.	Rt. 40 & Oak Rd, Buena	NJ

RADIATION ABSORBERS
See ABSORBERS—RADIATION

RADIATION APPLICATIONS
See SERVICES: RADIOISOTOPE & RADIATION APPLICATIONS

RADIATION DETECTORS
See COUNTERS—RADIATION

RADIATION PROCESSES
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SERVICES: IRRADIATION

RADIOACTIVE SOURCES
See SOURCES—RADIOACTIVE

RADIOACTIVE-WASTE DISPOSAL
See SERVICES: WASTE DISPOSAL, RADIOACTIVE

RADIOACTIVITY STANDARDS
See SOURCES—RADIOACTIVE

RADIOCHEMICAL SERVICES
See SERVICES: RADIOCHEMICAL

RADIOGRAPHIC EQUIPMENT

See Also SERVICES: RADIOGRAPHY
1. GAMMA RAY
2. X-RAY

A.E.I. LTD. INSTRUMENTATION DIV. 1-2, Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
AEROJET-GENERAL NUCLEONICS, 1, Adv Pg 119	Box 77, San Ramon	Cal
ALLIS-CHALMERS MFG. CO. 2, Adv. Pgs. 43, 47	935 S 70th St. Milwaukee 1	Wis
AMERAY CORP. 1-2, Adv Pg 114	Route 46, Kenvil	NJ
Andel & Co. Inc. 1-2	5218 N Kedzie Ave, Chicago 25	Ill
Atomic Energy of Canada Ltd, Commercial Products Div. 1	Box 93, Ottawa, Ont Canada	
Bracke-Seib X-Ray Co. Inc. 2	16 Pelham Bay Park W, Pelham Manor	NY
Budd Co. Instruments Div. 1	Box 245, Phoenixville	Pa
Cambridge Instrument Co., Ltd, 2	13 Grosvenor Pl, London SW1, Eng	
Canadian Radium & Uranium Corp. 1	630 5th Ave. New York 20	NY
CURTISS-WRIGHT CORP. PRINCETON DIV. 1-2, Adv Pg 211	Box 110, Princeton	NJ
Engis Equipment Co. 1-2	431 S Dearborn St. Chicago	Ill
Falk & Co. Ltd., M, 1	Emefco House, Reigate, Surrey, Eng	
Gamma Industrie, 1	92 Rue de Dunkerque, Paris 9, France	
Gamma Industries, Inc. 1-2	Box 2543, Baton Rouge	La
Gilardoni S.p.A. 1-2	Via Statale, Mandello Lario, Como	Italy
Gottfeld G.m.b.H., F. H. 1	Robert-Koch-Str. 26, Koln-Lindenthal	Ger
HIGH VOLTAGE ENGINEERING CORP. 2, Adv Pg 146	5 Bedford St. Burlington	Mass
Hunslet Precision Engng. Ltd. 1	Leeds, 10, England	
Inspection Services Ltd. 1	Oldfields Trading Est, Sutton By-pass, Sutton, Surrey, England	
ISOTOPES SPECIALTIES CO. NUCLEAR CORP. OF AMERICA, 1, Adv Pg 128	170 W Providencia, Burbank	Cal
Land Air Inc. 2	7444 W Wilson Ave. Chicago 31	Ill
Lockheed Aircraft Corp. 2	Box 551 Burbank	Cal
Mallory & Co., Inc., P. R. 2	3029 E Washington St. Indnpls, 6	Ind
Maryland Shipbuilding & Drydock Co 1-2	Box 537, Baltimore 3	Md
Metal & Pipeline Endurance Ltd. 1-2	30 London Rd, Knebworth, Herts, England	
Miles Hivolt Ltd. 2	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Mitchell Radiation Products Corp. 1-2	E Washington St. Norristown	Pa
Mullard Equipment Ltd. 1	Torrington Pl. London WC1, England	6226
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. 1, Adv Pg 116	2 Richwood Pl. Denville	NJ
Pantak Ltd. 1-2	Vale Rd. Windsor, Berks, England	
Pantatron Ltd. 1	5A Princes St. Hanover Sq. London W1, Eng	
Philips Electronic Instruments, 2	750 S Fulton Ave. Mt. Vernon	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 2, Adv Pg 267	Eindhoven, The Netherlands	
Picker & Harting Vertrieb GMBH, 1-2	Espelkamp-Mittwald Kn, Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. 1-2, Adv Pg 109	25 S Broadway, White Plains	NY
Poetschke & Co. oHG 1-2	Box 2766, Frankfurt/Main 1, Germany	
Radiation Dynamics Inc. 2	Westbury Industrial Pk. Westbury	NY
Radiation Products, Inc.	Pt. 40 Rd, Flushing 52	NY
Radionics Inc. 1-2	Lafayette & Water Sts. Norristown	Pa
RADIUM CHEMICAL CO. INC. 1, Adv Pg 14	161 E 42nd St. New York 17	NY
St. John X-Ray Laboratory, 1-2	Califon	NJ
Sarnia Inspection Co. 1	246 Tecumseh St, Sarnia, Ontario, Can	
Siemens-Reiniger-Werke AG, 1-2	Luipoldstr. 45, Erlangen, Germany	
Technical Operations, Inc. 1	South Ave, Burlington	Mass
TOKYO SHIBAURA ELECTRIC CO., LTD. 1-2, Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TOSI, S.p.A., FRANCO, 1-2, Adv Pg 276T	Legnano, Milan, Italy	
TRACERLAB INC. 1-2, Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. NUCLEAR CORP. 1, Adv Pg 262	901 N Lake St. Box 208, Burbank	Cal
Varian Associates, 2	611 Hansen Way, Palo Alto	Cal
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Western Radiation Lab. 1	1107 W 24 St, Los Angeles 7	Cal
Westinghouse Electric Corp X-Ray Div. 2	2519 Wilkens Ave. Baltimore 3	Md

RADIOISOTOPE ANALYSIS

See SERVICES: RADIOISOTOPE ANALYSIS

RADIOISOTOPES

See ISOTOPES—RADIOACTIVE
SERVICES: RADIOISOTOPE & RADIATION APPLICATION

RARE EARTHS

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RATEMETERS

See METERS—COUNTING-RATE

REACTOR CONTROLS

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REACTOR COMPONENTS

See CALANDRIAS—REACTOR
CONTAINMENT STRUCTURES—REACTOR
CONTROL SYSTEMS—REACTOR
DOORS—AIRTIGHT-ACCESS
FUEL ELEMENTS—REACTOR
LOOPS—TEST
MODERATORS
POWER PLANT COMPONENTS
POWER PLANTS—NUCLEAR
PRESSURIZERS—REACTOR
REACTOR INSTRUMENT SYSTEMS
REACTORS—NUCLEAR
REFUELING EQUIPMENT—REACTOR
SHIELDING—RADIATION
VESSELS—PRESSURE, REACTOR
WIRE & CABLE—RADIATION-RESISTANT

REACTOR DESIGN SERVICES

See SERVICES: REACTOR DESIGN

REACTOR ECONOMICS CONSULTING

See SERVICES: REACTOR ECONOMICS

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See FUEL ELEMENTS

REACTOR-HAZARD EVALUATION

See SERVICES: REACTOR-HAZARD EVALUATION

REACTOR INSTRUMENT SYSTEMS

See Also CONTROL SYSTEMS—REACTOR
METERS—REACTOR PERIOD
MONITORS—RADIATION
REACTOR MONITORING SYSTEMS
1. NUCLEAR
2. PROCESS, FLOW
3. PROCESS, PRESSURE
4. PROCESS, TEMPERATURE

AEG, 1-2-3-4, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV. 1-2-3-4, Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. 1, Adv Pg 249	261 Madison Ave. New York 16	NY
Advanced Technology Labs. 4	369 Whisman Rd. Mountain View	Cal
AEROJET-GENERAL NUCLEONICS, 1, Adv Pg 119	Box 77, San Ramon	Cal
American Electronics Inc, Nuclear Div. 1	9480 W Jefferson Blvd, Culver City	Cal
ANTON ELECTRONIC LABS. INC. 1, Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 1, Adv Pg 276AA	Charleroi, Belgium	
Avien, Inc. 2-3-4	58-15 Northern Blvd. Woodside 77	NY
Bailey Meter Co, 2-3-4	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co, Ltd, 2-3-4	5010 St. Catherine St, W, Montreal, Que	Can
Bailey Meters & Controls Ltd, 2-3-4	Purley Way, Croydon, Surrey, England	
BAIRD-ATOMIC, INC. 1-2-3, Adv Pg 65	33 University Rd. Cambridge 38	Mass
Barton Instrument Corp. 2	580 Monterey Pass Rd. Monterey Park	Cal
BELGONUCLEAIRE, 1, Adv Pg 128	35 rue des Colonies, Brussllos 1, Belgium	
Bell Telephone Mfg Co, Nuc Energy Dv 1	Berkenrodelei 75, Antwerp, Belgium	
Burns & Roe, Inc. 1-2-3-4	160 W Broadway, New York 13	NY
Canadian GE Co, Ltd, 1-2-3-4	107 Park St, Petersborough, Ont Can	
Canadian Westinghouse Co, Ltd, 1	Box 510, Hamilton, Ontario, Canada	
Consolidated Controls Corp. 1-2-3-4	14 Durant Ave. Bethel	Conn
CONVAIR, DIV. GEN. DYNAMICS CORP. 1, Adv Pg 104	Box 748, Fort Worth	Tex
CURTISS-WRIGHT CORP. PRINCETON DIV. 1-2, Adv Pg 211	Box 110, Princeton	NJ
Daystrom, Inc., Weston Instruments Div. 1-2-3-4	614 Frelinghuysen Ave, Newark 19	NJ
Ekco Electronics Ltd, Ekco Wks, 1-4	Southend-on-Sea, Essex, England	
Electrofio Meters Co, Ltd, 2-3-4	Abbey Rd, Park Royal, NW 10, London	Eng
Electromechanical Products, 4	Markham Rd. Agincourt, Ont. Can.	
English Electric Co, Ltd, 1	Eng. Elec. Hse, Strand, London WC2	Eng
Ericsson Telephones Ltd, 1-2-3-4	High Church St, New Basford, Nott. Eng	
Fairchild Camera & Instr. Corp, Defense Prods Div. 1	300 Robbins Ln, Syosset	NY
Fielden Electronics Ltd, 2-3-4	Paston Rd. Wythenshawe, Man 22, Eng	
FOSTER WHEELER CORP. 2-3-4, Adv Pg 7	666 5th Ave. New York 19	NY

FRIESEKE & HOEPFNER GmbH, 1		
Adv Pg 276H	Erlangen-Bruck, Germany	
Fuji Electric Mfg. Co. Ltd. 1-2-3-4	2-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
GAAA, 1	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 1-2-3-4,		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
HAGAN CHEMICALS & CONTROLS, INC. 2-3-4,		
Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30.	Pa
HAMMER ELECTRONICS CO. 1,		
Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
Hawker Siddeley Nuclear Power Co. Ltd, 1-2-3-4	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Integra, Leeds & Northrup Ltd. 1	Broad St. Birmingham 15, England	
Interatom, GmbH, 1-2-3-4	Bensberg/Koeln, Postfach, Germany	
Interstate Electronics Corp. 1	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. 1-4, Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
JOHNSON & ASSOC. INC., WILLIAM B. 1,		
Adv Pg 255	Box 415 Mountain Lakes	NJ
Kahl Scientific Instrument Corp. 1-4	Box 1166 El Cajon	Cal
Lintronic Ltd. 2-3-4	47 CharingCross Rd, London, WC2, Eng	
LOCKHEED NUCLEAR PRODUCTS, 1,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Marquardt Corp. 1-2-3-4	16555 Saticoy St. Van Nuys	Cal
Minn-Honeywell Reg Co. Con Dev Div, 1-2-3-4	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, 1-2-3-4,		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
NUCLEAR-CHICAGO CORP. 1,		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. 1,		
Adv Pg 116	2 Rickwood Pl. Denville	NJ
NUCLEAR DEVELOPMENT CORP. OF AMERICA, 1,		
Adv Pg 32	5 New St. White Plains	NY
Orenda Engines Ltd. 2-3-4	Box 4015, Term A, Toronto, Canada	
Patterson Foundry & Machine Co. 3	East Liverpool	Ohio
Patterson Moos Research Div. Leesona Corp. 4	90-28 Van Wyck Expwy. Jamaica 18	NY
Peebles & Co Ltd, Bruce, Electronics Div 1	E Pilton, Edinburgh 5, Scotland	
PHYSICAL SCIENCES CORP. 2-3-4,		
Adv Pg 263	389 N Fair Oaks, Pasadena	Cal
Plessey Nucleonics Ltd. 1	Weedon Rd. Northampton, England	
Potter Aeronautical Corp. 2	Route #22, Union	NJ
Pye, Ltd, 1-2-3-4	St. Andrews Rd, Cambridge, England	
RADIATION COUNTER LABS. INC. 1,		
Adv Pg 39	5122 W Grove St. Skokie	Ill
Republic Flow Meter Co. 2-3-4	2260 Diversey Pkwy. Chicago 47	Ill
Ruge Associates, Inc., Arthur C. 4	21 Elm Ave. Hudson	NH
Siemens & Halske AG, 1-2-3-4	Rheinbrueckenstr. 50, Karlsruhe, Germany	
SOLID STATE RADIATIONS, INC. 1,		
Adv Pg 44	9925 W Jefferson Blvd. Culver City	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp. 1-2-3-4	100 Carlson Rd. Rochester	NY
Swartwout Div.-Crane Co. 2-3-4	Hooksett Ind. Park, Manchester	NH
TECHNICAL MEASUREMENT CORP. 1,		
Adv Pg 215	441 Washington Ave. North Haven	Conn
Telechrome Mfg. Corp. 2	28 Ranick Dr. Amityville	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, 1,		
Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
TRACERLAB INC. 1,		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. Controls, Inc. 1-2-3	410 4th Ave. Brooklyn 15	NY
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
West Instrument Corp. 4	4363 W Montrose Ave. Chicago 41	Ill
Westinghouse Elec Corp, Pwr Control & Comm Dept. 1-2-3-4	East Pittsburgh	Pa

REACTOR MONITORING SYSTEMS

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD.		
Adv Pg 240	34-01 30th St. LIC 6	NY
ANTON ELECTRONIC LABS. INC.		
Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	Charleroi, Belgium	
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
BAIRD-ATOMIC, INC. Adv Pg 63	33 University Rd. Cambridge 38	Mass
Barton Instrument Corp.	580 Monterey Pass Rd. Monterey Park	Cal
Bell Telephone Mfg Co, Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. Cincinnati Div.	3130 Wasson Rd. Cincinti 8	Ohio
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Data-Master Corp, Sub, The Bristol Co.	85 Hazel St. Glen Cove	NY
Ekco Electronics Ltd. Ekco Wks.	Southend-on-Sea, Essex, England	
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276H	Erlangen-Bruck, Germany	
Fuji Electric Mfg. Co. Ltd.	2-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	Erith, Kent, England	
Hawker Siddeley Nuclear Power Co, Ltd.	Sutton Ln, Langley, Nr, Slough, Bucks	Eng
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
Jordan Electronics	Alhambra	Cal
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Magnetic Instruments Co. Inc.	637 Commerce St. Thornwood	NY
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR MEASUREMENTS CORP.		
Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TRG, Inc.	2 Aerial Way, Syosset	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
THOMSON-HOUSTON (CIE. FRANCAISE),		
Adv Pg 276B	173 Blvd. Haussman, Paris 8, France	
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. Controls, Inc.	410 4th Ave. Brooklyn 15	NY
VICTOREEN INSTRUMENT CO.		
Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3.	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	

REACTOR PRESSURE VESSELS

See VESSELS—PRESSURE, REACTOR

REACTOR SIMULATORS

See SIMULATORS—REACTOR

REACTORS—NUCLEAR

See Also SERVICES: REACTOR DESIGN

A — DESIGNER
B — CONSTRUCTOR
AB — BOTH
1. CRITICAL ASSEMBLIES
2. ISOTOPE-PRODUCTION
3. MATERIALS-TESTING
4. POWER
5. PROCESS & SPACE-HEAT
6. PROPULSION
7. PULSED
8. RESEARCH
9. TRAINING

AEG, 1A-4AB-6A-8AB-9AB, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. 3-8-9,		
Adv Pg 249	261 Madison Ave. New York 16	NY
Advanced Technology Labs, 2AB-4AB-5AB-8AB-9AB	369 Whisman Rd. Mountain View	Cal
AEROJET-GENERAL NUCLEONICS, 3A-4AB-5A-6A-7AB-8AB-9AB,		
Adv Pg 119	Box 77, San Ramon	Cal
ALCO PRODUCTS, INC. 1-4-5-6,		
Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
ALLIS-CHALMERS MFG. CO. 1-3-4-5-8-9,		
Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Alsthom, Nuclear Div, 4AB-8AB	38 Ave. Kleber, Paris 16, France	
ASTRA, INC. 8, Adv Pg 233	Box 226, Raleigh	NC
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 4AB-6AB-8AB,		
Adv Pg 276AA	Charleroi, Belgium	
Atomic Energy of Canada Ltd. Commercial Products Div. 2	Box 93, Ottawa, Ont Canada	
Atomics International Div. NAA, 1AB-2A-3A-4A-5A-6A-7AB-8AB-9AB	Box 309, Canoga Park	Cal

BABCOCK & WILCOX CO. 1AB-2AB-3AB-4AB-5AB-6AB-8AB-9AB,		
Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd, 4-5-6-7-8-9	209 Euston Rd, London NW 1, England	
BELGONUCLEAIRE, 1AB-4AB-6A-7AB-8AB-9AB,		
Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Burns & Roe, Inc, 1-2-3-4-5-6-7-8-9	160 W Broadway, New York 13	NY
Canadian GE Co, Ltd, 3-4-8	107 Park St, Peterborough, Ont Can	
Canadian Westinghouse Co, Ltd, 1AB-2AB-3AB-4AB-5AB-6AB-8AB-9AB	Box 510, Hamilton, Ontario, Canada	
Combustion Engineering, Inc, 1AB-2AB-3AB-4AB-5AB-6AB-7AB-8AB-9AB	200 Madison Ave, New York 16	NY
Consolidated Western Steel Div, U. S. Steel Corp, 3-4AB-8	Box 2015, Term. Ann, L A 54	Cal
Cook Electric Co, Nucledyne Div, 1-8-9	3412 River Rd, Franklin Park	Ill
Cross-Mulaker Laboratories, 1A-3A-4A-5A-6A-8A-9A	191 Mill Ln, Mountainside	NJ
CURTISS-WRIGHT CORP. PRINCETON DIV. 1AB-3AB-4AB-8AB-9AB,		
Adv Pg 211	Box 110, Princeton	NJ
Ebasco Services Inc, 1AB-2AB-3AB-4AB-8AB	2 Rector St, New York 6	NY
English Electric Co, Ltd, 4-6	Eng, Elec, Hse, Strand, London WC2	Eng
Fuji Electric Mfg Co Ltd 1-2-3-4-5-8-9	2-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
GAAA, 4-6-8-9	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. 1AB-2AB-3AB-4AB-5AB-6AB-7AB-8AB-9AB, Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 1AB-2AB-3AB-4AB-5AB-6AB-8AB, Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, 2AB-4AB-5AB-6AB-8AB-9AB,		
Adv Pg 276BB	Erith, Kent, England	
General Nuclear Engineering Corp, 1A-2A-3A-4A-5A-6A-7A-8A-9A	Box 245, Dunedin	Fla
Hawker Siddeley Nuclear Power Co, Ltd, 2-4-5-6-8-9	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Hitachi, Ltd, 1-9	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS. 7,		
Adv Pg 74	Box 90515, Intl. Airpt. Sta. LA 45	Cal
INDATOM, 1AB, 2AB, 3AB, 4AB, 5AB, 6AB, 7AB, 8AB, 9AB,		
Adv Pg 276F	48 rue de la Bostie, Paris 8, France	
Interatom, GmbH, 4AB-6AB-8AB-9AB	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. 1AB-2AB-3AB-4A-5A-6A-7AB-8AB-9AB,		
Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Kaiser Engineers, 2AB-3AB-4AB-5AB-8AB	300 Lakeside Dr, Oakland 12	Cal
Lintronic Ltd, 8	47 CharingCross Rd, London, WC2, Eng	
Lockheed Aircraft Corp, 3-8	Box 551 Burbank	Cal
LOCKHEED NUCLEAR PRODUCTS, 1AB-2AB-3AB-4AB-5AB-6AB-7AB-8AB-9AB,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Marquardt Corp, 4AB-6AB	16555 Saticoy St, Van Nuys	Cal
MARTIN CO. NUCLEAR DIV. 4AB-5A-6A, Adv Pg 5	Mail G-3037 Baltimore 3	Md
Maxon Construction Co, Inc, 1B-2B-3B-4B-5B-8B-9B	2600 Far Hills Ave. Dayton 19	Ohio
Miles Hivolt Ltd, 1AB-7AB-8AB-9AB	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
NUCLEAR-CHICAGO CORP. 9,		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR DEVELOPMENT CORP. OF AMERICA, 1-2-3-4-5-6-7,		
Adv Pg 32	3 New St. White Plains	NY
Nuclear Power Plant Co, Ltd, 3-4-8-9	Booths Hall, Knutsford, Cheshire, Eng	
NUCLEAR SERVICE CONSULTANTS, INC. 4A-5A, Adv Pg 133	630 11th Ave. New York 36	NY
Nuclear Technology Corp, 1A, 3A, 4A-5A-6A-7A-8A-9A	Irvington	NY
Orenda Engines Ltd, 1-9	Box 4015, Term A, Toronto, Canada	
Parsons Co., Ralph M, 1A-3AB-8A-9AB	617 W 7th St, Los Angeles 17	Cal
Patterson Moos Research Div, Lessona Corp, 4A	90-28 Van Wyck Expwy, Jamaica 18	NY
PIONEER SERVICE & ENGINEERING CO. 4A-5A,		
Adv Pg 102	231 S La Salle St. Chicago 4	Ill
Societe Fives-Penhoet, 2B-4B	340 rue Saint-Honore, Paris 1, France	
Societe Rateau, 1AB-2AB-3AB-4AB-5AB-6AB-8AB-9AB	Rue Rateau La Courneuve, Seine, France	
TRG, Inc, 5A-6A-7A	2 Aerial Way, Syosset	NY
Thompson, Ltd., John	Wolverhampton, England	
TOKYO SHIBAURA ELECTRIC CO., LTD. 1-4-8-9, Adv Pg 276D	12 Yurako-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TOSI, S.p.A., FRANCO, 3, Adv Pg 276T	Legnano, Milan, Italy	
Vickers-Armstrongs (S. Marston) Ltd, 3-8-9	Swindon, Wiltshire, England	
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT. 1-3-4-5-6-8,		
Adv. Pgs. 138, 139, 140	Forest Hills	Pa

RECOMBINERS—HYDROGEN & OXYGEN

Air Liquide	75 Quai d'Orsay, Paris, France	
Bio-Rad Laboratories	1257 S 32nd St, Richmond	Cal

RECORDERS

See Also CAMERAS—RECORDING
CONTROLS
COUNTERS
GAGES
METERS
SCALERS

1. GRAPHIC
2. HIGH-SPEED DIGITAL
3. LINE
4. MAGNETIC-TAPE
5. MULTICHANNEL
6. POTENTIOMETER

AB Scienta, 4	Kvillegatan 9B, Box 366, Goeteborg	Swed
AEG, 3-5, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd, 3-5	33 Grosvenor Pl, London SW1, Eng	
A.E.I. LTD. INSTRUMENTATION DIV. 4,		
Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Advanced Instruments, Inc. 1-5-6	45N Kenneth St, Newton Highlands 61	Mass
Alden Electronic & Impulse Recording Equip, Co, 1-2-3-5	Westboro	Mass
Allied Radio Corp. 4	100 N Western Ave, Chicago 80	Ill
American Optical Co, Instrument Div. 5	Box A, Buffalo 15	NY
Ampex Data Products Co Instrumentation-Computer Prods. Divs. 2-4	934 Charter St, Redwood City	Cal
Amplifier Corp. of America, 4	396 Broadway, New York 13	NY
Atkins Technical, Inc, 1	1276 W 3 St, Cleveland 13	Ohio
Atomasters-Buntaine Corp, 1	111 W Jewel Ave, St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. 6, Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Atomium Corp. 2-4-5	940 Main St, Waltham	Mass
Automatic Timing & Controls Inc, 1-5-6	King of Prussia	Pa
Aveley Electric, Ltd, 1-2-4-5-6	S. Ockendon, Essex, England	
B-I-F Industries, Inc, 1-2-3	530-D Harris Ave. Providence 1	RI
Bailey Meter Co, 5-6	29801 Euclid Ave, Wickliffe	Ohio
Bailey Meter Co, Ltd, 6	5010 St. Catherine St, W, Montreal, Que Can	
Bailey Meters & Controls Ltd, 6	Purley Way, Croydon, Surrey, England	
BAIRD-ATOMIC, INC. 1, Adv Pg 65	33 University Rd. Cambridge 38	Mass
Barber-Colman Co, Wheelco Instruments Div, 6	1300 Rock St, Rockford	Ill
Beckman Instruments, Inc, Scientific & Process Instruments Div, 6	2500 Fullerton Rd, Fullerton	Cal
Berkeley Div Beckman Instruments Inc 2	2200 Wright Ave, Richmond	Cal
Bendix Corp, 2-4-5-6	1128 Fisher Bldg, Detroit 2	Mich
Biotronics Labs, Inc, 1	Box 744, Sta, B, Montreal 2, P.Q. Can	
Bogen-Presto Div, The Siegler Corp, 4	Box 500, Paramus	NJ
BRISTOL CO. 1-3-4, Adv Pg 110	Box 1790 MBG, Waterbury 20	Conn
Bruel & Kjaer, 1-6	Linde Alle 23, Naerum, Den	
Cambridge Instrument Co, Ltd, 3-5-6	13 Grosvenor Pl, London SW1, Eng	
Century Electronics & Instruments, Inc, 6	Box 6216, Tulsa 10	Okla
Computer Systems Inc, 5	Culver Rd, Monmouth Junction	NJ
Consolidated Electrodynamics Corp 1-4-5	360 Sierra Madre Villa, Pasadena	Cal
Cook Electric Co, Nucledyne Div, 4	3412 River Rd, Franklin Park	Ill
Curtis Nuclear Corp, 1-5	1645 W 135th St, Gardena	Cal
CURTISS-WRIGHT CORP. PRINCETON DIV. 1,		
Adv Pg 211	Box 110, Princeton	NJ
Dalmo Victor Co Div Textron Inc 1-4-5	1515 Industrial Way, Belmont	Cal
Data-Stor Div, Cook Electric Co, 2-4	8100 N Monticello Ave, Skokie	Ill
Daystrom, Inc, Weston Instruments Div. 1-3-5-6	614 Frelinghuysen Ave, Newark 12	NJ
Designers for Industry, Inc, 1-5	4941 Fulton Pkwy, Cleveland 9	Ohio
Durant Mfg, Co, 2	1900 N Buffum St, Milwaukee 1	Wis
E. M. L.-Cossor Electronics Ltd, 2-4	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. 2-4-5,		
Adv Pg 96	Hayes, Middlesex, England	
Electric Autolite Co, 1	Toledo 1	Ohio
Electric Tachometer Corp, 1	68 & Upland Sts, Phila 42	Pa
Electro Medical Lab, Inc, 5	South Woodstock 6	Vt
Electroflo Meters Co, Ltd, 6	Abbey Rd, Park Royal, NW 10, London	Eng
Electromechanical Products, 2-5	Markham Rd, Agincourt, Ont, Can	
ELECTRONIC ASSOCIATES, INC. 1-2		
Adv Pg 55	Long Branch	NJ
Emerson Radio & Phonograph Corp, Govt, Electronics Div, 4	1140 East-West Hwy, Silver Spring	Md
Engelhard Industries, Inc.	113 Astor St, Newark 2	NJ
Epic, Inc, 3-5	180 Nassau St, New York 38	NY
Ercona Corp, Scientific Instrument Div, 4-5-6	16 W 46th St, New York 36	NY
Esterline-Angus Co, 1	Box 596, Indianapolis 6	Ind
Fernsteuergerate OHG, 1-3	68-72 Jahnstr, Berlin-Britz, Germany	
Fielden Electronics Ltd, 3-5-6	Paston Rd, Wythenshawe, Man 22, Eng	
Fischer & Porter Co, 1	50 Warminster Rd, Warminster	Pa
Foxboro Co, 6	38 Neponset Ave, Foxboro	Mass
FRIESEKE & HOEPFNER GmbH, 6,		
Adv Pg 276H	Erlangen-Bruch, Germany	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 1-3-6,		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Radio Co, 1	West Concord	Mass
Gordon Co., Claud S, 6	619 W 30 St, Chicago 16	Ill
Harco Laboratories, Inc, 6	77 Olive St, New Haven	Conn
Hays Corp, 3-6	Michigan City 40	Ind

Heath Co, 4-5	Benton Harbor	Mich
Hewlett-Packard Co, 1-2	1501 Page Mill Rd, Palo Alto	Cal
Hogan Faximile Corp, Sub, Telautograph Corp, 1-2-5	635 Greenwich St, New York 14	NY
Honeywell Controls, Ltd, 1-4-5-8	Vanderhoof Ave, Toronto, Ont Canada	
Houston Instrument Corp, 1	Box 22234, Houston 27	Tex
Integra, Leeds & Northrup Ltd, 5-6	Broad St, Birmingham 15, England	
Labgear Ltd, Nucleonics Div, 6	Cromwell Rd, Cambridge, England	
LEACH CORP. 1-3-4-5, Adv Pg 253	18435 Susana Rd, Compton	Cal
Leeds & Northrup Co, 1-5-6	4936 Stenton Ave, Phila 44	Pa
L'Electronique Appliquee, 6	25 rue du Docteur Finlay, Paris 15, Fr	
Librascope Div, Gen Precision, Inc, 2-4	Glendale 1	Cal
Litton Industries, 2-4-5	336 N Foothill Rd, Beverly Hills	Cal
Lundell & Co, 2	7356 S Woodlawn Ave, Chicago 19	Ill
Metrix Instruments Ltd, 1-5-6	54 Victoria Rd, Surbiton, Surrey, Eng	
Midwestern Instruments, 1-2-4-5	41st & Sheridan Rd, Box 7509, Tulsa 18	Okla
Minn-Honeywell Reg Co, Con Dev Div, 1-2-3-4-5-6	2753 4th Ave, S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, 1-3-4-5-6, Adv. Pgs. 26,27,115	Wayne & Windrim Aves, Phila. 44	Pa
Minnesota Mining & Mfg, Co, 4-5	900 Bush Ave, St. Paul 6	Minn
Moseley Co., F. L, 1-3-6	409 N Fair Oaks Ave, Pasadena	Cal
Muirhead Instruments Inc, 4	441 Lexington Ave, New York 17	NY
New Electronic Products Ltd, 1-2-4-5	360 Kennington Rd, London, SE11, Eng	
Newman Industries Ltd, 2	Yate, Brhtol, England	
Norais, Div, Northrop Corp, 1-5	1001 E Broadway, Hawthorne	Cal
NUCLEAR ENTERPRISES LTD. 1-5, Adv Pg 258	550 Berry St. Winnipeg 12, Manitoba	
NUCLEONIC CORP. OF AMERICA, 1, Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Officine Galileo, 1	Via Carlo Bini 44, Florence, Italy	
Offner Electronics Inc, 1-5	3938 River Rd, Schiller Park	Ill
PACKARD INSTRUMENT CO. INC. 6, Adv Pg 227	Box 428 La Grange	Ill
Partlow Corp, 6	Dept, NBG-58 New Hartford	NY
Philco Corp, 2	4700 Wissahickon Ave, Phila 44	Pa
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 6, Adv Pg 267	Eindhoven, The Netherlands	
Photron Instrument Co, 1-5	6516 Detroit Ave, Cleveland 2	Ohio
Poetschke & Co, oHG 2	Box 2766, Frankfurt/Main 1, Germany	
Rank Cintel Ltd, 5	Worsley Bridge Rd, London, SE 26, Eng	
Republic Flow Meter Co, 1-5	2260 Diversey Pkwy, Chicago 47	Ill
Rust Industrial Co, Inc., The, 1-3	130 Silver St, Manchester	NH
Sanborn Co, 1-5	175 Wyman St, Waltham 54	Mass
Sangamo Electric Co, 1-2-4-5	11 & Converse Sts, Springfield	Ill
Sensitized Coatings, Ltd, 1-4-5	42 Dingwall Rd, E Croydon, Surrey, Eng	
SHARP LABORATORIES, INC. 2, Adv Pg 248	Box 1382, La Jolla	Cal
Siemens & Halske AG, 3-6	Rheinbrueckenstr, 50, Karlsruhe, Germany	
Siemens-Reiniger-Werke AG, 1-2-3-5-6	Luipoldstr, 45, Erlangen, Germany	
Solartron Electronic Group Ltd, 2-4-5	Victoria Rd, Farnborough, Hants, Eng	
Southern Instruments, Ltd, 5	Frimley Rd, Camberley, Surrey, England	
Stoelting Co., C. H, 1-5-6	424 N Homan Ave, Chicago 24	Ill
Streeter-Amet Co, 2-5	Grayslake	Ill
Stromberg-Carlson Div, Gen, Dynamics Corp, 1-2-3-4-5-6	100 Carlson Rd, Rochester	NY
Stromberg Carlson Div, Gen Dynamics, 1-2-3	1895 Hancock St, San Diego 12	Cal
Swartwout Div.-Crane Co, 1	Hooksett Ind, Park, Manchester	NH
Systron-Donner Corp, 2-6	950 Galindo St, Concord	Cal
Taylor Instrument Cos, 1	38 Ames St, Rochester 1	NY
Taylor, Taylor & Hobson Div, Rank Prec, Ind, Ltd, 1	Stoughton St, Leicester, England	
Technology Instruments Corp, 6	531 Main St, Acton	Mass
Telechrome Mfg, Corp, 1-3	28 Ranick Dr, Amityville	NY
Telecro Industries Corp, 1-2-4-5	35-16 37th St, LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD. 1-5, Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Texas Instruments Incorporated, 1-5-6	6000 Lemmon Ave, Dallas 9	Tex
Texas Instruments Incorporated, Geosciences & Instrumentation Div, 1-5-6	3609 Buffalo Speedway, Houston 6	Tex
1-5-6	3609 Buffalo Speedway, Houston 6	Tex
Thermo Electric Co, Inc, 6	Saddle Brook	NJ
Varian Associates, 1-5	611 Hansen Way, Palo Alto	Cal
Victor Adding Machine Co, 2	3900 N Rockwell St, Chicago 18	Ill
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
West Instrument Corp, 1-3-6	4363 W Montrose Ave, Chicago 41	Ill
Westinghouse Elec Corp, Instrument Dept, 1-2	Newark	NJ
Westronics Inc, 1-5-6	3605 McCart, Fort Worth	Tex
Will Corp, 6	Box 1050, Rochester 3	NY
Yellow Springs Instrument Co Inc, 1-5-6	Box 106, Yellow Springs	Ohio

RECOVERY SYSTEMS—INERT GAS

Liquid Metals, Inc.	Box 2866, Westford	Mass
Little, Inc., Arthur D,	35 Acorn Park, Cambridge 40	Mass

RECTIFIERS—ELECTRONIC
See POWER SUPPLIES

RECTIFIERS—METALLIC
See Also DIODES

A. E. L. Ltd.	33 Grosvenor Pl, London SW1, Eng	
ALLIS-CHALMERS MFG. CO. Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	Charleroi, Belgium	
Bell Telephone Mfg Co, Nuc Energy Dv,	Berkenrodelei 75, Antwerp, Belgium	
Djeco Div, Djordjevic Engng, Co.	1933 N Damen, Chicago 47	Ill
Fansteel Metallurgical Corp.	North Chicago	Ill
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
International Rectifier Corp.	233 Kansas St, El Segundo	Cal
Ledex, Inc.	123 Webster, Dayton 2	Ohio
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Physics Research Labs, Inc.	Box 555, Hempstead	NY
Raytheon Co, Semiconductor Div.	215 1st Ave, Needham Hgts.	Mass
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Syntron Co.	355 Lexington Ave, Homer City	Pa
TRANSITRON ELECTRONIC CORP. Adv Pg 107	168 Albion St. Wakefield	Mass
Vickers, Inc, Electric Products Div.	1815 Locust St, St. Louis 3	Mo

REFRACTORIES
See Also CERAMICS

Atomics International Div, NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Basic, Inc.	845 Hanna Bldg, Cleveland 14	Ohio
Engelhard Industries, Inc.	113 Astor St, Newark 2	NJ
Gladding, McBean & Co.	1551 S Primrose St, Monrovia	Cal
Harbison-Walker Refractories Co.	307 5th Ave, Pittsburgh 22	Pa
Johns-Manville	22 E 40th St, New York 16	NY
Morgan Crucible Co, Ltd.	Battersea Church Rd, London SW11, Eng	
National Beryllia Corp.	4501 Dell Ave. North Bergen	NJ
NATIONAL CARBON CO. DIV. UCC, Adv. Pg. 4th Cover	270 Park Ave. New York 17	NY
Norton Co.	1 New Bond St, Worcester 6	Mass
Star Porcelain Co.	21 Muirhead Ave, Trenton	NJ
TRG, Inc.	2 Aerial Way, Syosset	NY
Taylor Sons Co., Chas.	Box 58, Cincinnati 14	Ohio
Thermal Refractories Corp.	4501 Dell Ave, North Bergen	NJ
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY

REFUELING EQUIPMENT—REACTOR

ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	Charleroi, Belgium	
Atomics International Div, NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
Bliss Co., E. W.	1375 Raff Rd, SW, Canton	Ohio
Bodendieck Tool Co.	Rt, 48 N, Taylorville	Ill
Canadian GE Co, Ltd.	107 Park St, Petersborough, Ont Can	
Dilworth, Secord, Meagher & Assoc Ltd	4214 Dundas St, W Toronto, Ont Canada	
Electric Boat Div, Gen, Dynamics Corp.	Groton	Conn
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Farrel-Birmingham Co, Inc.	Ansonia	Conn
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Flight Refueling Ltd.	Tarrant Rushton Arfld, Blanford, Dorset	Eng
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	
GENERAL MILLS, INC. NUCLEAR EQPT. DEPT. MECH. DIV. Adv. Pgs. 16, 17	419 N 5th St. Minneapolis 1	Minn
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Interatom, GmbH.	Bensberg/Koeln, Postfach, Germany	
Lignostone Import Co.	Box 65, Gracie Sta, NY 28	NY
National Forge Co.	10 Front St, Irvine, Warren County	Pa
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Parker Aircraft Co.	5827 W Century Blvd, L A 45	Cal
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Radiation Products, Inc.	Pt, 40 Rd, Flushing 52	NY
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St, Milwaukee 1	Wis
Thompson, Ltd., John	Wolverhampton, England	
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. Adv. Pgs. 76, 77	Beach St. Beverly	Mass
Vard	2981 E Colorado, Pasadena	Cal

REGISTERS—ELECTROMECHANICAL
See COUNTERS—ELECTROMECHANICAL

REGULATORS—FEEDWATER

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Atlas Valve Co.	280 South St. Newark 5	NJ
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que	Can
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Hammel-Dahl/Foster Engineering Div. Gen. Controls Co.	Warwick Industrial Pk. Warwick	RI
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo

REGULATORS—VOLTAGE

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Aircraft Ground Equipment	160 Blackswarth Rd. Bristol, Eng.	
Allen-Bradley Co.	136 W Greenfield Ave. Milwaukee 4	Wis
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	Charleroi, Belgium	
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Clark Controller Co.	1146 E 152 St. Cleveland 10	Ohio
Djeco Div. Djordjevic Engrg. Co.	1933 N Damen, Chicago 47	Ill
Electric Machinery Mfg. Co.	800 Central Ave. Minneapolis 13	Minn
Electronic Measurements Co. Inc.	Lewis St. & Maple Ave. Eatontown	NJ
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Foster Transformers Ltd.	S Wimbledon Morden Rd. London, SW19,	Eng
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	
General Meters, Inc.	Box 1701, Grand Junction	Colo
General Radio Co.	West Concord	Mass
Hill & Co., E. Vernon	Box 189, Lake Geneva	Wis
International Research Associates	5438 W North Ave. Chicago 39	Ill
Jordan Electronics	Alhambra	Cal
KEPCO INC. Adv Pg 266	131-38 Sanford Ave. Flushing 52	NY
LEACH CORP. Adv Pg 253	18435 Susana Rd. Compton	Cal
Leland Airborne Products Div. AMF	Box 128, Vandalia	Ohio
Magnetic Amplifiers Div. Siegler Corp.	632 Tinton Ave. New York 55	NY
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Ovitron Corp.	37-05 48 Ave. Long Island City	NY
Perkin Engineering Corp.	345 Kansas St. El Segundo	Cal
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Rank Cintel Ltd.	Worsley Bridge Rd. London, SE 26, Eng	
Raytheon Co. Commer Appar & Sys Div.	1415 Boston-Prov. Tnpk. Norwood	Mass
Solartron Electronic Group Ltd.	Victoria Rd. Farnborough, Hants, Eng	
Sorensen & Co. Inc.	Richards Ave. South Norwalk	Conn
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Superior Electric Co., The	83 Laurel St. Bristol	Conn
Technology Instrument Corp.	531 Main St. Acton	Mass
Tel-Instrument Electronics Corp.	728 Garden St. Carlstadt	NJ
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
Valor Instruments, Inc.	13214 Crenshaw Blvd. Gardena	Cal
Varo Mfg. Co. Inc.	2201 Walnut St. Garland	Tex
Vickers, Inc. Electric Products Div.	1815 Locust St. St. Louis 3	Mo
Weltronic Co.	19600 W 8 Mile Rd, Detroit 41	Mich
Westinghouse Elec Corp. Pwr Control & Comm Dept.	East Pittsburgh	Pa
Zenith Electric Co. Ltd.	Villiers Rd. London, NW2, England	

RELAYS

1. A-C
2. D-C
3. ELECTRONIC
4. TIME-DELAY

AEG, 1-2-3-4, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A. E. L. Ltd. 1-2-3	33 Grosvenor Pl. London SW1, Eng	
A.E.I. LTD. INSTRUMENTATION DIV. 1-2-4, Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Abrams Instrument Corp. 4	600 E Shiawassee St. Lansing	Mich
Adams & Westlake Co. 1-2-4	1025 Michigan St. Elkhart	Ind
Ad-Yu Electronics Lab, Inc. 3	249 Terhune Ave. Passaic	NJ
Allen-Bradley Co. 1-2-3-4	136 W Greenfield Ave. Milwaukee 4	Wis
Allied Control Co. Inc. 1-2-4	2 E End Ave. New York 21	NY
ALLIS-CHALMERS MFG. CO. 1-2-3-4, Adv. Pgs. 45, 47	925 S 70th St. Milwaukee 1	Wis
Alsthom, Nuclear Div. 1-2-3-4	38, Ave. Kleber, Paris 16, France	
American Instrument Co. Inc. 4	8030 Georgia Ave. Silver Spring	Md
Amperite Co. Inc. 4	561 Broadway, New York 12	NY
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 1-2, Adv Pg 276AA	Charleroi, Belgium	
Autocall Co. 4	Shelby	Ohio
Autocon Ind. Inc. Div. Automatic Control Co. 3-4	995 University Ave. St. Paul 4E	Minn
Automatic Electric Sales Corp. 1-2-4	Northlake	Ill
AUTOMATIC SWITCH CO. 1-2-3-4, Adv Pg 87	56M Hanover Rd. Florham Park	NJ
Automatic Timing & Controls, Inc. 3-4	King of Prussia	Pa
Autotron Inc. 3-4	3629 N Vermilion St, Danville	Ill
B/W Controller Corp. 1-3	2200 E Maple Rd. Birmingham	Mich
Babcock Relays, Inc. 1-2-3-4	1645 Babcock Ave. Costa Mesa	Cal
BAIRD-ATOMIC, INC. 3, Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bell Telephone Mfg Co. Nuc Energy Dv. 1-2-3-4	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. 1-2-3-4	1128 Fisher Bldg. Detroit 2	Mich
Biotronics Labs. Inc. 3	Box 744, Sta. B, Montreal 2, P.Q.	Can
Branson Corp. 1-2-4	41 S Jefferson Rd. Whippany	NJ
BRISTOL CO. 2, Adv Pg 110	Box 1790 WBG, Waterbury 20	Conn
Clark Controller Co. 1-2-3-4	1146 E 152 St. Cleveland 10	Ohio
Comar Electric Co. 1-2-3-4	3349 W Addison St. Chicago 18	Ill
Comell-Dubilier Electronics Div. Fed. Pacific Elec. Co. 1-2	1605 Rodney French Blvd. New Bedford	Mass
Couch Ordnance Inc. Relay Div. 2	3 Arlington St. N Quincy 71	Mass
Cramer Controls Corp. 4	Centerbrook	Conn
Curtiss-Wright Corp. Electronics Div. 2-3-4	35 Market St. East Paterson	NJ
Cutler-Hammer, Inc. 1-2-3-4	412 N 12th St. Milwaukee 1	Wis
Daystrom Inc. Control Systems Div. 3	4455 Miramar Rd. LaJolla	Cal
Daystrom, Inc. Weston Instruments Div. 1-2-3	614 Frelinghuysen Ave. Newark 12	NJ
Deltron, Inc. 3	4th & Cambria Sts. Philadelphia 33	Pa
Duraloool, Inc. 1-2-4	1010 N Main St. Elkhart	Ind
Eagle Signal Co Div The Gamewell Co 3-4	202 20th St. Moline	Ill
Ebert Electronics Corp. 1-2-3-4	212-26 Jamaica Ave. Queens Village 28	NY
Edison Ind., Thomas A., Instr. Div. McGraw-Edison Co. 2-3-4	40 Lakeside Ave. West Orange	NJ
Engineered Electronics Co. 3	1441 E Chestnut Ave. Santa Ana	Cal
English Electric Co. Ltd. 1-2-4	Eng. Elec. Hse. Strand, London WC2	Eng
Ericson Telephones Ltd. 1-2	High Church St. New Basford, Nott.	Eng
General Automatic Corp. 1-2-3-4	111 33rd St. Union City	NJ
General Controls Co. 4	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 1-2-3-4, Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, 1-2-4, Adv Pg 276BB	Erith, Kent, England	
Guardian Electric Mfg. Co. 1-2-3-4	1550 W Carroll Ave. Chicago 7	Ill
Gyra Electronics Corp. 3	Box 194 La Grange	Ill
H-B Instrument Co. 1-2-3	American & Bristol Sts. Philadelphia 40	Pa
Haledy Electronics Co. 3-4	57 William St. New York 5	NY
Heath Co. 3	Benton Harbor	Mich
Heinemann Electric Co. 1-2-4	Box 299, Trenton	NJ
Hendrey Relays Ltd. 1-2-4	392 Bath Rd. Slough, Bucks, England	
Hi-G, Inc. 1-2-3-4	Bradley Field, Windsor Locks	Conn
Honeywell Controls, Ltd. 1-3	Vanderhoof Ave. Toronto, Ont Canada	
Industrial Filter & Pump Mfg. Co. 1-2-3-4	5900 Ogden Ave. Cicero 50	Ill
Industrial Timer Corp. 4	1407 McCarter Hwy. Newark 4	NJ
International Research Associates, 1-2-3-4	5438 W North Ave. Chicago 39	Ill
INTERTECHNIQUE S.A. 4, Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
Iron Fireman Mfg. Co. Electronics Div. 2	2838 SE 9th Ave. Portland 2	Ore
J-B-T Instruments, Inc. 1	133 Hamilton St. New Haven 8	Conn
Jennings Radio Mfg. Corp. 1-2	970 McLaughlin Ave. San Jose 8	Cal
Jordan Electronics, 4	Alhambra	Cal
Kellogg Switchboard & Supply Co. 2	6650 S Cicero Ave. Chicago 38	Ill
Land Air Inc. 1-2-3-4	7444 W Wilson Ave. Chicago 31	Ill
LaPine & Co., Arthur S. 3	6001 S Knox Ave. Chicago 29	Ill
LEACH CORP. 1-2-3-4, Adv Pg 253	18435 Susana Rd. Compton	Cal
Ledex, Inc. 2	123 Webster, Dayton 2	Ohio
Magnetic Amplifiers Div. Siegler Corp. 1-2	632 Tinton Ave. New York 55	NY
Mallory & Co., Inc., P. R. 4	3029 E Washington St. Indnpls. 6	Ind
Marcold Corp. 1-2	4201 Belmont Ave. Chicago 41	Ill
Minn-Honeywell Reg Co. Con Dev Div. 1-2-3	2753 4th Ave. S, Mnpls 8	Minn
Muirhead Instruments Inc. 2	441 Lexington Ave. New York 17	NY
N. G. N. Electrical Ltd. 3	Ave. Parade, Accrington, Lanc. England	
Newman Industries Ltd. 3	Yate, Bristol, England	
Oerlikon Engineering Co. 1-2-4	Zurich 50, Switzerland	
Ohmite Mfg. Co. 1-2-4	3601 Howard St. Skokie	Ill
Oster Mfg. Co., John, Avionic Div. 3	1 Main St. Racine	Wis
Panellit Div. ISI Inc. 1-2-3-4	7401 N Hamlin Ave. Skokie	Ill
Phaostron Instrument & Electronic Co. 2	151 Pasadena Ave. South Pasadena	Cal

Philco Corp. 3-4	4700 Wissahickon Ave., Phila 44	Pa
Phillips Control Corp. 1-2-4	59 W Washington St, Joliet	Ill
Pollak Corp., Joseph, 1-2-3-4	85 Freeport St. Boston 22	Mass
Potter & Brumfield, Inc Div AMF, 1-2-3	Princeton	Ind
Price Electric Corp. 1-2-3-4	E 2nd & Church Sts. Frederick	Md
RBM Div. Essex Wire Corp. 1-2-3-4	Logansport	Ind
RF Products Div. Amphenol-Borg, 3	33 E Franklin, Danbury	Conn
Raytheon Co. Ind. Comps. Div. 3	55 Chapel St. Newton	Mass
Robinson & Co. Ltd., D. 1-2-3-4	717 London Rd. Hounslow, Middlsx. Eng	
Scott, Inc., H. H. 3	111 Powder Mill Rd. Mayard	Mass
Sigma Instruments, Inc. 1-2	170 Pearl St. South Braintree 85	Mass
Simmonds Ltd., L. E. 1-2-4	Byron Rd. Harrow, Middlesex, England	
Standard Telephones & Cables Ltd. 2-3-4	63 Aldwych, London WC2, England	
STEVENS-ARNOLDS INC. 2, Adv Pg 86	**7 Elkins St. So. Boston 27**	**Mass**
Stromberg-Carlson Div. Gen. Dynamics Corp. 1	100 Carlson Rd. Rochester	NY
Terado Co. 2	1068 Raymond Ave. St. Paul 8	Minn
TOKYO SHIBAURA ELECTRIC CO., LTD. 1-3, Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
Torwico Electronics, Inc. 3-4	1080 Morris Ave. Union	NJ
Trak Electronics Co Div CGS Labs Inc. 3	Wilton	Conn
Trott Electronics, Inc. 3-4	412 Smith St. Rochester 8	NY
Ulanet Co. George, 4	413 Market St. Newark 5	NJ
Varo Mfg. Co. Inc. 3	2201 Walnut St. Garland	Tex
Venner Electronics Ltd. 3-4	Kingston By-Pass, New Malden, Surrey, Eng	
Ward Leonard Electric Co. 1-2	115 MacQuesten Pkwy S, Mt. Vernon	NY
Westinghouse Electric Corp. 1-2-3-4	Box 2278, Pittsburgh 30	Pa
Westinghouse Elec Corp. Pwr Control & Comm Dept. 1-2-3-4	East Pittsburgh	Pa
Wheelock Signals, Inc. 1-2-3	273 Branchport Ave. Long Branch	NJ
Wilson & Co., G. C. 3-4	1915 8th Ave. Huntington	W Va
Yuba Consolidated Industries, Inc. 1-2-3	1 Bush St. San Francisco 4	Cal

REMOTE-HANDLING DEVICES
See Also MANIPULATORS—REMOTE
TONGS—HANDLING

Aeroquip-Marman Div.	11214 W Exposition Blvd. L A 64	Cal
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
AMERAY CORP. Adv Pg 114	**Route 46, Kenvil**	**NJ**
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave. St. Paul 4E	Minn
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
Barnes Co., W. F. & John	301 S Water St. Rockford	Ill
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Boucher & Co. Ltd.	Pike Mills, Green St. Kidderminster, Worcester, England	
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Carter & Viner	Cooden Sea Rd. Bexhill, Sussex, Eng	
CENTRAL RESEARCH LABS. INC. Adv. Pgs. 68, 69	**Red Wing**	**Minn**
Cook Electric Co. Nucledyne Div.	3412 River Rd, Franklin Park	Ill
DIAMOND POWER SPECIALTY CORP. Adv Pg 132	**Box 415 Lancaster**	**Ohio**
Farrel-Birmingham Co. Inc.	Ansonia	Conn
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
Magnetic Amplifiers Div. Siegler Corp.	632 Tinton Ave. New York 55	NY
Nuclear Research Applications Ltd.	Bell St. Reigate, Surrey, England	
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Officine Galileo	Via Carlo Bini 46, Florence, Italy	
Radiation Detection Co.	4047-49 Transport Ave. Palo Alto	Cal
Radiation Products, Inc.	Ft. 40 Rd. Flushing 52	NY
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. Adv. Pgs. 76, 77	**Beach St. Beverly**	**Mass**
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

RESINS—ION-EXCHANGE
See Also ION-EXCHANGE EQUIPMENT

Baker Chemical Co., J. T.	Phillipsburg	NJ
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Chemical Process Co.	Box 829, Redwood City	Cal
Chem-Pure Service Co.	762 Industrial Rd. San Carlos	Cal
Cochrane Corp.	3214 17th St. Philadelphia 32	Pa
Dearborn Chemical Co.	Merch. Mart Plaza, Chicago 54	Ill
Dow Chemical Co.	Midland	Mich
ELGIN SOFTENER CORP. Adv Pg 265	**179 N Grove Ave. Elgin**	**Ill**
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	**Box 1346, Pittsburgh 30**	**Pa**
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Ionics Inc.	152 6th St. Cambridge 42	Mass
K-Plastix	55 Elmira St. San Francisco 24	Cal
Microchemical Specialties Co.	1825 Eastshore Hwy. Berkeley 10	Cal
NALCO CHEMICAL CO. Adv Pg 53	**6318 W 66th Pl. Chicago 38**	**Ill**
Permutit Co. Div. Pfaudler Permutit Inc.	50 W 44th St. New York 36	NY
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa

RESPIRATORS
See MASKS—PROTECTIVE

RHEOSTATS
See POTENTIOMETERS

ROLLING EQUIPMENT
See *Under* FABRICATING EQUIPMENT

SAFETY EQUIPMENT & SERVICES
See ALARMS & ANNUNCIATORS
CLOTHING—PROTECTIVE
DECONTAMINATING EQUIPMENT
DOSIMETERS—RADIATION
LAUNDRY EQUIPMENT
MASKS—PROTECTIVE
MONITORS—RADIATION
SERVICES:
CRITICALITY-HAZARD EVALUATION
DECONTAMINATION
HEALTH PHYSICS
LAUNDRY
MONITORING
REACTOR-HAZARD EVALUATION
SAMPLING, AIR & WATER
SITE LOCATION
URINALYSIS
WASTE DISPOSAL
SHIELDING—RADIATION
SIGNS—WARNING, RADIATION

SAMPLE CHANGERS—AUTOMATIC

AB Scienta	Kvillegatan 9B, Box 366, Goeteborg	Swed
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC DEVELOPMENT & MACHINE CORP. Adv Pg 128	**15-04 130 St. College Point 56**	**NY**
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelaf 75, Antwerp, Belgium	
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	**Box 748, Fort Worth**	**Tex**
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
FRIESEKE & HOEPFNER GmbH, Adv Pg 276H	**Erlangen-Bruck, Germany**	
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
Isotope Accessories Co.	5312 Westminster Ave. Philadelphia 31	Pa
ISOTOPE DEVELOPMENTS LTD. Adv Pg 239	**Bath Rd. Reading, Berks, England**	
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	**Box 415 Mountain Lakes**	**NJ**
JOHNSTON LABS. INC., WILLIAM H., Adv Pg 90	**3617 Woodland Ave. Baltimore 15**	**Md**
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Labgear Ltd. Nucleonics Div.	Cromwell Rd. Cambridge, England	
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
MEILLON, INC., GEORGE T. Adv Pg 252	**132 Nassau St. New York 38**	**NY**
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	**345 E Howard Ave. Des Plaines**	**Ill**
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	**196 Dogrow St. Brooklyn 31**	**NY**
PACKARD INSTRUMENT CO. INC. Adv Pg 227	**Box 428, La Grange**	**Ill**
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	

RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
S. A. I. P.	38 Rue Gabriel Cris, Malakoff, Seine	Fr
SELO	Via Monfalcone, 12, Milano, Italy	
Servonuclear Corp.	28-21 Astoria Blvd, Long Island City	NY
SHARP LABORATORIES, INC.		
Adv Pg 248	Box 1302, La Jolla	Cal
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walsh Associates, Charles	Box 244, Deerfield	Ill

SAMPLE CHANGERS—MANUAL

American Agile Corp.	Box 168, Bedford	Ohio
ANTON ELECTRONIC LABS. INC.		
Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC DEVELOPMENT & MACHINE CORP.		
Adv Pg 128	15-04 130 St. College Point 56	NY
Bell Telephone Mfg Co, Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Eberline Instrument Corp.	Box 279, Santa Fe	NM
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
FORRO SCIENTIFIC CO. Adv Pg 236	833 Lincoln St. Evanston	Ill
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276M	Erlangen-Bruck, Germany	
Instrument & Development Prods Co, Inc.	355 W 109th Pl. Chicago	Ill
Intentate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
Isotope Accessories Co.	5312 Westminster Ave. Philadelphia 31	Pa
JOHNSON & ASSOC. INC., WILLIAM B.,		
Adv Pg 255	Box 415 Mountain Lakes	NJ
JOHNSTON LABS. INC., WILLIAM H.,		
Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
MEILLON, INC., GEORGE T. Adv Pg 252	132 Nassau St. New York 38	NY
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	2 Richwood Pl. Denville	NJ
NUCLEAR MEASUREMENTS CORP.		
Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
SELO	Via Monfalcone, 12, Milano, Italy	
Servonuclear Corp.	28-21 Astoria Blvd, Long Island City	NY
SHARP LABORATORIES, INC.		
Adv Pg 248	Box 1302, La Jolla	Cal
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walsh Associates, Charles	Box 244, Deerfield	Ill

SAMPLING—AIR
See SERVICES: SAMPLING, AIR & WATER

SAMPLING SYSTEMS—FLUID

Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Consolidated Engines & Machy Co, Ltd.	5645 Pare St, Mt. Royal, Montreal, Can	
Devco Engineering Inc. Control Systems Div.	Pier Lane W, Caldwell	NJ
DIAMOND POWER SPECIALTY CORP.		
Adv Pg 132	Box 415 Lancaster	Ohio
Filtronics Inc.	Box 200, Cowell	Cal
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
NUCLEAR MEASUREMENTS CORP.		
Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
OPW-Jordan	6013 Wiehe Rd. Cincinnati 13	Ohio
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Schmidt Instrument Co.	Box 111, San Carlos	Cal
Staplex Co. Air Sampler Div.	783 5th Ave. Brooklyn 32	NY
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY

SAMPLING—WATER
See SERVICES: SAMPLING, AIR & WATER

SCALERS—BINARY
See Also COUNTERS
SCALING TUBES—DECADE

AB Scienta	Kvillegatan 9B, Box 366, Goeteborg	Swed
AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bell Telephone Mfg Co, Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Borg-Warner Controls Div, Borg-Warner Corp.	3300 Newport Blvd, Santa Ana	Cal
Computer Equipment Corp.	1931 Pontius Ave, L A 25	Cal
Computer Systems Inc.	Culver Rd, Monmouth Junction	NJ
Curtis Nuclear Corp.	1645 W 135th St, Gardena	Cal
Digital Equipment Corp.	Maynard	Mass
Dymec Div. Hewlett-Packard Co.	395 Page Mill Rd. Palo Alto	Cal
Dynatron Radio Ltd.	St. Peter's Rd. Furze Platt, Maidenhead, Berks, Eng	
ELDORADO ELECTRONICS CO.		
Adv Pg 223	2821 10th St. Berkeley 10	Cal
ELECTRONIC ASSOCIATES, LTD.		
Adv Pg 260	4616 Yonge St. Willowdale, Ont. Can.	
Engineered Electronics Co.	1441 E Chestnut Ave. Santa Ana	Cal
Epsco Inc, Components Div.	275 Massachusetts Ave. Cambridge 39	Mass
Ericsson Telephones Ltd.	High Church St, New Basford, Nott. Eng	
FORRO SCIENTIFIC CO. Adv Pg 236	833 Lincoln St. Evanston	Ill
Franklin Systems, Inc.	2734 Hillsboro Rd. W Palm Beach	Fla
Gyra Electronics Corp.	Box 184 La Grange	Ill
HAMMER ELECTRONICS CO.		
Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
HARVEY WELLS ELECTRONICS, INC.		
Adv Pg 6	14 Huron Dr. Natick	Mass
JOHNSON & ASSOC. INC., WILLIAM B.,		
Adv Pg 255	Box 415 Mountain Lakes	NJ
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Laben	Via Amadeo 41, Milano, Italy	
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Meriam Instrument Co.	10920 Madison Ave, Cleveland 2	Ohio
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Navigation Computer Corp.	1621 Snyder Ave, Philadelphia 45	Pa
Newman Industries Ltd.	Yate, Bristol, England	
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR-ELECTRONICS CORP.		
Adv Pg 6	2925 N Broad St. Philadelphia 32	Pa
NUCLEAR ENTERPRISES LTD.		
Adv Pg 238	550 Berry St. Winnipeg 12, Manitoba	
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Dogrow St. Brooklyn 31	NY
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Plessey Nucleonics Ltd.	Weedon Rd, Northampton, England	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
Porter Aeronautical Corp.	Route #22, Union	NJ
Racal Instruments Ltd.	Western Rd, Bracknell, Berks, England	
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Rank Cintel Ltd.	Worsley Bridge Rd, London, SE 26, Eng	
Ransom Research	Box 269, San Pedro	Cal
SELO	Via Monfalcone, 12, Milano, Italy	
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TECHNICAL MEASUREMENT CORP.		
Adv Pg 215	441 Washington Ave. North Haven	Conn
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
Uranium Instruments Co.	Box 1191, Grand Junction	Colo
Venner Electronics Ltd.	Kingston By-Pass, New Malden, Surrey, Eng	
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walkirt Co.	141 W Hazel St. Inglewood 3	Cal
Wang Laboratories	12 Huron Dr. Natick	Mass

SCALERS—DECADE
See Also COUNTERS
SCALING TUBES—DECADE

AB Scienta	Kvillegatan 9B, Box 366, Goeteborg	Swed
AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	

Ad-Yu Electronics Lab, Inc.	249 Terhune Ave, Passaic	NJ
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD.		
Adv Pg 240	34-01 30th St. LIC 6	NY
ANTON ELECTRONIC LABS. INC.		
Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	Charleroi, Belgium	
Atomasters-Buntaine Corp.	111 W Jewel Ave, St. Louis 22	Mo
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bell Telephone Mfg Co, Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd, Santa Ana	Cal
Burroughs Corp. Electronic Tube Div.	Box 1226, Plainfield	NJ
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Computer Measurements Co.	12970 Bradley Ave. Sylmar	Cal
Computer Systems Inc.	Culver Rd. Monmouth Junction	NJ
Cosmic Radiation Labs., Inc.	1645 Montauk Hwy. Bellport	NY
Curtis Nuclear Corp.	1645 W 135th St, Gardena	Cal
Dymec Div. Hewlett-Packard Co.	395 Page Mill Rd, Palo Alto	Cal
Eberline Instrument Corp.	Box 279, Santa Fe	NM
Ekco Electronics Ltd. Ekco Wks.	Southend-on-Sea, Essex, England	
ELDORADO ELECTRONICS CO.		
Adv Pg 223	2821 10th St. Berkeley 10	Cal
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
ELECTRONIC ASSOCIATES, LTD.		
Adv Pg 260	4616 Yonge St. Willowdale, Ont. Can.	
Elomag Sprl	2 Ave. Wellington, Bruxelles 18, Belgium	
Engineered Electronics Co.	1441 E Chestnut Ave, Santa Ana	Cal
Ericsson Telephones Ltd.	High Church St, New Basford, Nott, Eng	
FORRO SCIENTIFIC CO. Adv Pg 236	833 Lincoln St. Evanston	Ill
Franklin Systems, Inc.	2734 Hillsboro Rd. W Palm Beach	Fla
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276N	Erlangen-Bruck, Germany	
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
HAMNER ELECTRONICS CO.		
Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
HARVEY WELLS ELECTRONICS, INC.		
Adv Pg 6	14 Huron Dr. Natick	Mass
Hewlett-Packard Co.	1501 Page Mill Rd, Palo Alto	Cal
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
ISOTOPE DEVELOPMENTS LTD.		
Adv Pg 239	Bath Rd. Reading, Berks, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B.,		
Adv Pg 255	Box 415 Mountain Lakes	NJ
JOHNSTON LABS. INC., WILLIAM H.,		
Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
Kienzle Apparate GmbH	Villingen/Schwarzwald, Germany	
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
Laben	Via Amadeo 41, Milano, Italy	
Labgear Ltd, Nucleonics Div.	Cromwell Rd, Cambridge, England	
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Marshall of Cambridge Electronics Ltd.	The Aerodrome, Cambridge, England	
Meriam Instrument Co.	10920 Madison Ave, Cleveland 2	Ohio
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Navigation Computer Corp.	1621 Snyder Ave. Philadelphia 45	Pa
Newman Industries Ltd.	Yate, Bristol, England	
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	2 Rickwood Pl. Danville	NJ
NUCLEAR-ELECTRONICS CORP.		
Adv Pg 6	2925 N Broad St. Philadelphia 32	Pa
Nuclear Enterprises (GB) Ltd.	Bankhead Medway, Edinburgh 11, Scot	
NUCLEAR MEASUREMENTS CORP.		
Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
Nuclear Research Applications Ltd.	Bell St, Reigate, Surrey, England	
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St. Brooklyn 31	NY
PACKARD INSTRUMENT CO. INC.		
Adv Pg 227	Box 428, La Grange	Ill
Panax Equipment, Ltd.	Holmethorpe Ind. Est. Redhill, Surr. Eng	
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Philips Electronic Instruments	750 S Fulton Ave. Mt. Vernon	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Physique Industrielle S. A.	66 Bvd, de l'Imperatrice Brussels 1, Belg	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
Potter Aeronautical Corp.	Route #22, Union	NJ
Racal Instruments Ltd.	Western Rd, Bracknell, Berks, England	
RADIATION COUNTER LABS. INC.		
Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Rank Cintel Ltd.	Worsley Bridge Rd. London, SE 26, Eng	
Ransom Research	Box 269, San Pedro	Cal
S. A. L. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SELO	Via Monfalcone, 12, Milano, Italy	
SHARP LABORATORIES, INC.		
Adv Pg 248	Box 1302, La Jolla	Cal
Siemens-Reiniger-Werke AG.	Luipoldstr, 45, Erlangen, Germany	
Systron-Donner Corp.	950 Galindo St. Concord	Cal
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TECHNICAL MEASUREMENT CORP.		
Adv Pg 215	441 Washington Ave. North Haven	Conn
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
Uranium Instruments Co.	Box 1191, Grand Junction	Colo
Venner Electronics Ltd.	Kingston By-Pass, New Malden, Surrey, Eng	
VICTOREEN INSTRUMENT CO.		
Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walkirt Co.	141 W Hazel St. Inglewood 3	Cal
Wang Laboratories	12 Huron Dr. Natick	Mass

SCALES
See BALANCES

SCALING TUBES—DECADE
See *Also* SCALERS
TUBES—ELECTRON

AMPEREX ELECTRONIC CORP.		
Adv Pg T45	230 Duffy Ave. Hicksville	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Burroughs Corp. Electronic Tube Div.	Box 1226, Plainfield	NJ
Curtis Nuclear Corp.	1645 W 135th St, Gardena	Cal
Ericsson Telephones Ltd.	High Church St, New Basford, Nott, Eng	
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
La Radiotechnique	130, Av. Ledru-Rollin-Paris 11, France	
Meriam Instrument Co.	10920 Madison Ave, Cleveland 2	Ohio
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St. Brooklyn 31	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
RADIATION COUNTER LABS. INC.		
Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Raytheon Co, Ind. Comps. Div.	55 Chapel St, Newton	Mass

SCANNERS—ISOTOPE-DISTRIBUTION

Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
Atomium Corp.	940 Main St. Waltham	Mass
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Curtis Nuclear Corp.	1645 W 135th St, Gardena	Cal
FORRO SCIENTIFIC CO. Adv Pg 236	833 Lincoln St. Evanston	Ill
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276N	Erlangen-Bruck, Germany	
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
Isotope Accessories Co.	5312 Westminster Ave. Philadelphia 31	Pa
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Kobe Kogyo Corp.	1-5 Wadayama-Dori, Kobe, Japan	
LKB-Produkter Fab.	Box 12220, Stockholm 12, Sweden	
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill

NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
NUCLEAR MEASUREMENTS CORP. Adv Pg 46	2460 N Arlington Ave. Indianapolis 18	Ind
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
SELO	Via Monfalcone, 12, Milano, Italy	
Siemens-Reiniger-Werke AG,	Luipoldstr. 45, Erlangen, Germany	
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Vanguard Instrument Co,	Box 244 La Grange	Ill
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walsh Associates, Charles	Box 244, Deerfield	Ill

SCANNERS—NEUTRON-FLUX

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Borg-Warner Controls Div, Borg-Warner Corp,	3300 Newport Blvd, Santa Ana	Cal
Ericson Telephones Ltd,	High Church St, New Basford, Nott, Eng	
Interstate Electronics Corp,	707 E Vermont Ave, Anaheim	Cal
Miles Hivolt Ltd,	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
Plessey Nucleonics Ltd,	Weedon Rd, Northampton, England	
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Walsh Associates, Charles	Box 244, Deerfield	Ill

SCINTILLATION COUNTERS
See COUNTERS—RADIATION

SCINTILLATORS
1. *CRYSTAL*
2. *LIQUID*
3. *PLASTIC*

ALLIED RESEARCH ASSOCIATES, INC. 3, Adv Pg 107	43 Leon St. Boston 15	Mass
AMERICAN TRADAIR CORP. SUB. EKCO ELECTRONICS, LTD. 1, Adv Pg 240	34-01 30th St. LIC 6	NY
ARAPAHOE CHEMICALS, INC. 2, Adv Pg 253	2855 Walnut St. Boulder	Colo
ATOMIC ACCESSORIES, INC. 1-3, Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
BAIRD-ATOMIC, INC. 1-2, Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bios Laboratories, Inc, 1-2-3	17 W 60th St, New York 23	NY
Biotronics Labs, Inc, 1-2-3	Box 744, Sta. B, Montreal 2, P.Q. Can	
Borg-Warner Controls Div, Borg-Warner Corp, 1	3300 Newport Blvd, Santa Ana	Cal
Cadillac Plastic & Chemical Co, 3,	15111 2nd Ave. Detroit 3	Mich
Computer Measurements Co, 1	12970 Bradley Ave, Sylmar	Cal
Curtis Nuclear Corp, 1-3	1645 W 135th St, Gardena	Cal
Ekco Electronics Ltd. Ekco Wks, 1	Southend-on-Sea, Essex, England	
Franklin Systems, Inc, 1-2-3	2734 Hillsboro Rd, W Palm Beach	Fla
FRIESEKE & HOEPFNER GmbH, 1, Adv Pg 276N	Erlangen-Bruck, Germany	
HAMMER ELECTRONICS CO. 1, Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
HARSHAW CHEMICAL CO. 1-3, Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Hilger & Watts, Ltd, 1	98 St, Pancras Way, London NW 1, Eng	
Interstate Electronics Corp, 3	707 E Vermont Ave, Anaheim	Cal
ISOMET CORP. 1-2-3, Adv Pg 126	433 Commercial Ave. Palisades Park	NJ
ISOTOPE DEVELOPMENTS LTD. 1, Adv Pg 239	Bath Rd. Reading, Berks, England	
ISOTOPES INC. 1-3, Adv. Pgs. 72, 116	123 Woodland Ave. Westwood	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, 1, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSTON LABS. INC., WILLIAM H. 1-2-3, Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
Kahl Scientific Instrument Corp, 1	Box 1166 El Cajon	Cal
Kent Chemicals Ltd, 1-2-3	1292 Franklin St, Vancouver 6, BC	
Kobe Kogyo Corp, 1-2-3	1-6 Wadayama-Dori, Kobe, Japan	
La Radiotechnique, 1-3	130, Av. Ledru-Rollin-Paris 11, France	
MEILLON, INC., GEORGE T. 1, Adv Pg 252	132 Nassau St. New York 38	NY
Nash & Thompson Ltd, 1-2-3	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Nuclear Enterprises (GB) Ltd, 1-2-3	Bankhead Medway, Edinburgh 11, Scot	
NUCLEAR ENTERPRISES LTD. 1-2-3, Adv Pg 258	550 Berry St. Winnipeg 12, Manitoba	
NUCLEONIC CORP. OF AMERICA, 1-3, Adv Pg 232	196 Dupont St. Brooklyn 31	NY
PACKARD INSTRUMENT CO. INC. 1-2, Adv Pg 227	Box 428, La Grange	Ill
Panax Equipment, Ltd, 1-2-3,	Holmethorpe Ind. Est, Redhill, Surr, Eng	
Peebles & Co Ltd, Bruce, Electronics Div 1-2	E Pilton, Edinburgh 5, Scotland	
PHILIPS' GLOEILAMPENFABRIEKEN, H. V. SCIEN. EQUIP. DEPT. 3, Adv Pg 267	Eindhoven, The Netherlands	
Picker & Harting Vertrieb GMBH, 1,	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. 1, Adv Pg 109	25 S Broadway, White Plains	NY
PILOT CHEMICALS, INC. 2-3, Adv Pg 66	Dept. N, 36 Pleasant St. Watertown 72	Mass
Poeschke & Co. oHG 1-2-3	Box 2706, Frankfurt/Main 1, Germany	
Precision Radiation Instrument, 1	5810 S Normandie, Los Angeles 44	Cal
Quartz & Silice, 1-3,	8 rue d'Anjou, Paris, France	
RADIATION INSTRUMENT DEVELOPMENT LAB. 1-3, Adv. Pgs. 129, 276i	61 E North Ave. Northlake	Ill
SAINT GOBAIN, 1, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
SEMI-ELEMENTS INC. 1-3, Adv Pg 98	Saxonburg Blvd. Saxonburg	Pa
Servonuclear Corp, 1	28-21 Astoria Blvd, Long Island City	NY
TECHNICAL ASSOCIATES, 1-2-3, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TERMINAL RADIO INTERNATIONAL LTD. 1-3, Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TRACERLAB INC. 1-2-3, Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
VAR-LAC-OID CHEMICAL CO. 1, Adv Pg 265	116 Broad St. New York 4	NY
VICTOREEN INSTRUMENT CO. 1, Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	

SCRAM MONITORS
See *Under* MONITORS—RADIATION

SCREENS—X-RAY

Allied Lead Construction Co.	6836 S Chicago Ave, Chicago	Ill
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
du Pont de Nemours & Co. Inc., E. I.	Wilmington 98	Del
Lead Fabricators, Inc.	25 Belgrove Dr. Kearny	NJ
Mitchell Radiation Products Corp.	E Washington St. Norristown	Pa
Perforated Products, Inc.	181 Harvard St, Brookline 46	Mass
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
St. John X-Ray Laboratory	Califon	NJ
Telectro Industries Corp,	35-16 37th St, LIC 1	NY
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. RADIUM CORP. Adv Pg 90	Box 346, Morristown	NJ
U.S. Radium Corp. (Europe)	36 Ave. Krieg, Geneva, Switzerland	
Warren Corp.	2901 Brighton Rd, Pittsburgh 12	Pa

SCRUBBERS
See VACUUM CLEANERS—INDUSTRIAL

SCRUBBERS—GAS
See Also AIR-CLEANING SYSTEMS

Air Pollution Control Div, John Wood Co.	Essex Bldg, Bernardsville	NJ
American Agile Corp.	Box 168, Bedford	Ohio
Cleaver-Brooks Special Products Inc.	225 N Grand Ave, Waukesha	Wis
FINNELL SYSTEM INC. Adv Pg 250	500 East St. Elkhart	Ind
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. Adv Pg 106	4809 Tod Ave. East Chicago	Ind
KELLEY & CO., O. G. Adv Pg 30	98 Taylor St. Boston 22	Mass
Knight Co., Maurice A.	Box 111, Akron 9	Ohio
Midland Heating & Ventilation Co, Ltd,	Bedford Rd, Birmingham 11, England	
Monsanto Chemical Co, Plastics Div.	600 Monsanto Ave, Springfield 2	Mass
Nooter Corp.	1424 S 3rd St, St. Louis 66	Mo
Pfaudler Co, Div, Pfaudler Permutit Inc,	1000 West Ave, Rochester 3	NY
Plessey Nucleonics Ltd,	Weedon Rd, Northampton, England	
Taylor Forge & Pipe Works	Box 485, Chicago	Ill

SEALING COMPOUNDS

A. E. I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
Arco Co.	7301 Bessemer Ave, Cleveland 27	Ohio
Bacon Industries, Inc.	192 Pleasant St, Watertown	Mass
Biddle Co., James G.	1316 Arch St, Philadelphia 7	Pa
Biggs Co., Carl H.	1547 14th St, Santa Monica	Cal
Connecticut Hard Rubber Co.	New Haven 8	Conn

Devcon Corp.	Endicott St, Danvers	Mass
Dow Corning Corp.	Midland	Mich
Eco Engineering Co.	12 New York Ave. Newark 1	NJ
Felt Products Mfg. Co.	7450 N McCormick Blvd. Skokie	Ill
Foster Co., Benjamin	4635-37 W Girard Ave. Philadelphia 31	Pa
Fuller Co., H. B., Restweld Div.	255 Eagle St, St. Paul 2	Minn
Glessner Co., A. J.	975 Bryant St, San Francisco 3	Cal
Hadbar, Inc.	9530 Gidley St, Rosemead	Cal
Highside Chemicals, Inc.	4-10 Colfax Ave. Clifton	NJ
Humble Oil & Ref Co, Humble Div.	Box 2180, Houston 1	Tex
Johns-Manville	22 E 40th St, New York 16	NY
Minnesota Mining & Mfg. Co.	900 Bush Ave, St, Paul 6	Minn
Pittsburgh Plate Glass Co.	632 Fort Duquesne Blvd, Pittsburgh 22	Pa
Preco Chemical Corp.	589 Main St, Westbury	NY
Research Vacuum Supply Co.	6712 N Clark St, Chicago	Ill
Silicones Div. UCC	270 Park Ave, New York 17	NY
Stonhard Co. Inc.	401 N Broad St. Philadelphia	Pa
Zephar Mills, Inc.	112-130 26 St, Brooklyn 32	NY

SEALS—MECHANICAL

Advanced Products Co.	59 Broadway, North Haven	Conn
Allied Engineering & Production Corp.	2421 Blanding Ave, Alameda	Cal
Andrew Co., Otis	231 W Court St, Cincinnati 2	Ohio
Auburn Mfg. Co.	500 Stack St, Middletown	Conn
Bacon Industries, Inc.	192 Pleasant St, Watertown	Mass
Borg-Warner Mechanical Seals	Box 2017, Term. Annex, L A 54	Cal
Byron Jackson of Canada, Ltd.	Box 180, Sta. H, Toronto 13, Ont. Can	
BYRON JACKSON PUMPS, INC. Adv. Pgs. 24, 25	2300 E Vernon Ave. LA 54	Cal
Chicago Allis Mfg. Co.	113-125 N Green St, Chicago 7	Ill
Cleveland Graphite Bronze Div. Clevite Corp.	17000 St. Clair Ave. Cleveland 10	Ohio
Connecticut Hard Rubber Co.	New Haven 9	Conn
Crane Packing Co.	6400 Oakton St, Morton Grove	Ill
Durametallic Corp.	Factory St, Kalamazoo	Mich
Emerson Plastics Corp.	1383 Seabury Ave, Bronx 61	NY
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd, Detroit 32	Mich
Federal-Mogul-Bower Bearings, Inc.	11031 Shoemaker Ave. Detroit 13	Mich
Felt Products Mfg. Co.	7450 N McCormick Blvd. Skokie	Ill
Flexibox Ltd.	Nash Rd, Trafford Pk, Manchester, 17, Eng	
FLIGHT REFUELING INC. Adv Pg 133	Box 1791, Baltimore 3	Md
Gits Bros. Mfg. Co.	1848 S Kilbourn Ave, Chicago 23	Ill
Hadbar, Inc.	9530 Gidley St, Rosemead	Cal
Haskell Engineering Co.	1236 S Central Ave, Glendale 4	Cal
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Johns-Manville	22 E 40th St, New York 16	NY
Koppers Co. Inc. Nuclear Prods. Sec.	Pittsburgh 19	Pa
Licon Div. Illinois Tool Works	6606 Dakin St, Chicago 34	Ill
Magnetic Seal Corp.	166 Bay Spring Ave. W Barrington	RI
Morgan Crucible Co, Ltd.	Battersea Church Rd, London SW11, Eng	
N. G. N. Electrical Ltd.	Ave, Parade, Accrington, Lanc, England	
NATIONAL CARBON CO. DIV. UCC, Adv. Pg. 4th Cover	270 Park Ave. New York 17	NY
Penn Fibre & Specialty Co.	2020 E Westmoreland St, Philadelphia 34	Pa
Sylphon Div.	Box 400, Knoxville 1	Tenn
Robertshaw-Fulton Controls Co. Fulton		
Rotherm Engineering Co. Inc.	7280 W Devon Ave. Chicago	Ill
Sealol Inc.	Warwick Industrial Pk. Providence 5	RI
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Sulzer Bros.	Winterthur, Switzerland	
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
U.S. Graphite Co. Div. Wickes Corp.	Holland Ave, Saginaw 5	Mich
U. S. STONEWARE CO. Adv Pg 79	Akron 9	Ohio
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

SEALS—PNEUMATIC

Advanced Products Co.	59 Broadway, North Haven	Conn
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Andrew Co., Otis	231 W Court St. Cincinnati 2	Ohio
Auburn Mfg. Co.	500 Stack St. Middletown	Conn
Bacon Industries, Inc.	192 Pleasant St. Watertown	Mass
Chicago Allis Mfg. Co.	113-125 N Green St. Chicago 7	Ill
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
Hadbar, Inc.	9530 Gidley St, Rosemead	Cal
Haskell Engineering Co.	1236 S Central Ave, Glendale 4	Cal
Johns-Manville	22 E 40th St, New York 16	NY
Sealol Inc.	Warwick Industrial Pk. Providence 5	RI
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

SEMICONDUCTOR DEVICES
See COUNTERS—RADIATION

DIODES—SEMICONDUCTOR
TRANSISTORS

SEMICONDUCTOR RADIATION DETECTORS
See COUNTERS—RADIATION

SEPARATORS—ENTRAINMENT

Anderson Co., V. D., Div. Intl. Basic Economy Corp.	1935 W 96th St, Cleveland 2	Ohio
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
POSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
Johnson Corp.	809 Wood St, Three Rivers	Mich
NATIONAL CARBON CO. DIV. UCC, Adv. Pg. 4th Cover	270 Park Ave. New York 17	NY
Nooter Corp.	1424 S 3rd St, St. Louis 66	Mo
Selas Corp. of America	Dresher	Pa

SERVICES & CONSULTANTS

SERV. & CONS'LT: ACTIVATION ANALYSIS

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
AEROJET-GENERAL NUCLEONICS, Adv Pg 119	Box 77, San Ramon	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
American Electronics Inc. Nuclear Div.	9459 W Jefferson Blvd, Culver City	Cal
ASTRA, INC. Adv Pg 235	Box 236, Raleigh	NC
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMATION, INC. DIV. C. W. REED CO. INC. Adv Pg 233	5959 S Hoover, L A 44	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
Bio-Nuclear Labs. Inc.	1503 Guadalupe St, Austin 1	Tex
CONTROLS FOR RADIATION, INC. Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	Box 748, Fort Worth	Tex
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
HIGH VOLTAGE ENGINEERING CORP. Adv Pg 146	5 Bedford St. Burlington	Mass
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
Ionics Inc.	152 6th St, Cambridge 42	Mass
Isoserve Inc.	131 Portland St, Cambridge 39	Mass
ISOTOPES INC. Adv Pg 116	123 Woodland Ave. Westwood	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSTON LABS. INC., WILLIAM H., Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
KAMAN NUCLEAR, Adv Pg 258	Box 3217, No. End Sta. Colorado Springs	Colo
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
New England Nuclear Corp.	575 Albany St, Boston	Mass
Nuclear Consultants Corp.	9843 Manchester Rd, St. Louis 19	Mo
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Radiation Applications, Inc.	36-40 37th St, Long Island City 1	NY
RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St. Louisville 10	Ky
SHARP LABORATORIES, INC. Adv Pg 249	Box 1302, La Jolla	Cal
Sharpe, Leon M.	61 Broadway, New York 6	NY
TEXAS NUCLEAR CORP. Adv. Pgs. 228, 229	Box 9267, Allandale Sta. Austin 17	Tex
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 298, Burbank	Cal
Uranium Instruments Co.	Box 1191, Grand Junction	Colo
WESTINGHOUSE TESTING REACTOR, Adv. Pgs. 138, 139, 141	Box 1075, Pittsburgh 30	Pa

SERV. & CONS'LT: ANALYSIS, ISOTOPIC

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
AEROJET-GENERAL NUCLEONICS, Adv Pg 119	Box 77, San Ramon	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo

NUCLEAR AND ALLIED PRODUCTS — SERVICES & CONSULTANTS

ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminta Ave. Panorama City	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
BIOCHEMICAL PROCEDURES NUCLEAR ASSAY DIV.		
Adv Pg 61	13030 Chandler Blvd. H Hollywood	Cal
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Curtis Nuclear Corp.	1645 W 135th St, Gardena	Cal
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OPP.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Ionics Inc.	152 6th St, Cambridge 42	Mass
ISOMET CORP. Adv Pg 126	433 Commercial Ave. Palisades Park	NJ
Isoserve Inc.	131 Portland St, Cambridge 39	Mass
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Jarrell-Ash Co.	26 Farwell St, Newtonville 60	Mass
Ledoux & Co.	359 Alfred Ave. Teaneck	NJ
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Dugway St. Brooklyn 31	NY
RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St. Louisville 10	Ky
SELO	Via Monfalcone, 12, Milano, Italy	
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 898, Attleboro	Mass
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 209, Burbank	Cal
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 138, 139, 140	Forest Hills	Pa
WESTINGHOUSE TESTING REACTOR,		
Adv. Pgs. 138, 139, 141	Box 1075, Pittsburgh 30	Pa
York Research Corp.	1 Research Dr, Stamford	Conn

SERV. & CONS'LT: ARCHITECT-ENGINEER

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
Allstates Design & Devel. Co, Inc.	25 N Warren St, Trenton	NJ
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
Anaconda Co.	25 Broadway, New York 4	NY
Andel & Co. Inc.	5218 N Kedzie Ave. Chicago 25	Ill
Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
Austin Co.	16112 Euclid Ave. Cleveland 12	Ohio
Batcheller, Inc., Willis T.	704 3rd Ave. Seattle 4	Wash
Bechtel Corp.	220 Bush St. San Francisco 4	Cal
Beck & Assocs., R. W.	1500 Tower Bldg. Seattle 1	Wash
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Black & Veatch Consulting Engineers	1500 Meadow Lake Pkwy. Kansas City 14	Mo
Blaw-Knox Co.	300 6th Ave. N. B. Pittsburgh 22	Pa
Bohna & Co. Inc., B. D.	515 Market St. San Francisco 5	Cal
Bovay, Jr., H. E.	5009 Caroline St. Houston 4	Tex
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Brodsky, Hopf & Adler	220 E 23rd St. New York 10	NY
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Caratom	17 Rd. de la Liberation, St. Denis, Seine	Fr
Catalytic Construction Co.	1528 Walnut St. Philadelphia 2	Pa
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Commonwealth Associates, Inc.	209 E Washington Ave. Jackson	Mich
Consolidated Western Steel Div. U. S. Steel Corp.	Box 2015, Term. Ann. L A 54	Cal
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cummins & Barnard, Inc.	2058 S State, Ann Arbor	Mich
Design Service Co. Inc.	76 9th Ave. New York 11	NY
Dilworth, Secord, Meagher & Assoc Ltd	4214 Dundas St. W Toronto, Ont Canada	
Djordjevic Engineering Co.	1933 N Damen, Chicago 47	Ill
Dollo & Associates, John	208 S La Salle St, Chicago 4	Ill
Dornblatt & Assoc. Inc., B. M.	826 Lafayette St. New Orleans 12	La
Ebasco Services Inc.	2 Rector St. New York 6	NY
Electro-Watt Elec & Ind Mgmt Co.Ltd.	Talacker 16, Zurich 22, Swit	
Ewbank & Partners Ltd.	11 Grosvenor Pl. London, SW1, Eng	
Ferguson Co., H. K.	1783 E 11th St, at Walnut, Cleveland 14	Ohio
Fluor Corp. Ltd.	12000 E Washington Blvd, Whittier	Cal
Ford, Bacon & Davis, Inc.	2 Broadway, New York 4	NY
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Gannett Fleming Corddry & Carpenter Inc	600 N 2nd St, Harrisburg	Pa
General Nuclear Engineering Corp.	Box 245, Dunedin	Fla
Giffels & Rossetti, Inc.	1000 Marquette Bldg. Detroit 26	Mich
Gilbert Associates, Inc.	525 Lancaster Ave. Reading	Pa
Holmes & Narver, Inc.	828 S Figueroa LA 17	Cal
Humphreys & Glasgow Ltd.	22 Carlisle Pl. London SW1, England	
INDATOM, Adv Pg 276F	48 rue de la Bastie, Paris 8, France	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd, London, SW1, England	
Jackson & Moreland, Inc.	600 Park Square Bldg. Boston 16	Mass
Kaiser Engineers	300 Lakeside Dr, Oakland 12	Cal
Kinney, Inc., A. M.	2912 Vernon Pl, Cincinnati 19	Ohio
Kuljian Corp.	1200 N Broad St. Philadelphia 21	Pa
Lockwood Greene Engineers, Inc.	41 E 42nd St, New York 17	NY
Loftus Corp. Peter F.	First Natl. Bank Bldg. Pittsburgh 22	Pa
McKee & Co., Arthur G.	2300 Chester Ave, Cleveland 1	Ohio
Maia, Inc., Chas. T.	80 Federal St, Boston 10	Mass
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
Menlo Research Laboratory	1627 Bay Rd, East Palo Alto	Cal
Merz and McLellan	Milburn, Esher, Surrey, England	
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
Panero Engineers, Guy B.	620 3rd Ave, New York 17	NY
Parsons Co., Ralph M.	617 W 7th St, Los Angeles 17	Cal
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
PIONEER SERVICE & ENGINEERING CO.		
Adv Pg 102	231 S La Salle St. Chicago 4	Ill
Pritchard & Co., J. F.	4825 Roanoke Pkwy, Kansas City	Mo
Racey MacCallum & Assoc. Ltd.	5890 Monkland Ave, Montreal, Can	
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
Robert & Co., Associates	96 Poplar St, NW, Atlanta 3	Ga
Rust Engineering Co.	2316 4 Ave. N, Birmingham 3	Ala
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Sanderson & Porter	72 Wall St. New York 5	NY
Sargent & Lundy	140 S Dearborn St, Chicago 3	Ill
Schoenfeld, David M.	New Canaan	Conn
Singmaster & Breyer, Inc.	420 Lexington Ave. New York 17	NY
Stanley Engineering Co.	Hershey Blvd. Muscatine	Iowa
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Stone & Webster Engineering Corp.	49 Federal St, Boston 7	Mass
Sumner Sollitt Co.	307 N Michigan Ave, Chicago 1	Ill
VITRO CORP. OF AMERICA,		
Adv. Pgs. 213, 276H	261 Madison Ave. New York 36	NY
White Engineering Corp. J. G.	80 Broad St, New York 4	NY

SERV. & CONS'LT: COMPUTER

A.E.I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Advanced Technology Labs.	369 Whisman Rd. Mountain View	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
ALLIED RESEARCH ASSOCIATES, INC.		
Adv Pg 107	43 Leon St. Boston 15	Mass
ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Avco Research & Adv. Devel. Div.	201 Lowell St. Wilmington	Mass
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Bio-Rad Laboratories	1257 S 32nd St, Richmond	Cal
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Broadview Research Corp.	1811 Trousdale Dr. Burlingame	Cal
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Burroughs Corp.	Detroit 32	Mich
Canadian GE Co. Ltd.	107 Park St, Peterborough, Ont Can	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Computer Systems Inc.	Culver Rd, Monmouth Junction	NJ
Control Data Corp. Computer Div.	501 Park Ave, Minneapolis 15	Minn
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Designers for Industry, Inc.	4241 Fulton Pkwy, Cleveland 9	Ohio
Dewey Corp., G. C.	202 E 44th St, New York 36	NY
Dian Laboratories, Inc.	611 Broadway, New York 12	NY
Djordjevic Engineering Co.	1933 N Damen, Chicago 47	Ill
Ebasco Services Inc.	2 Rector St, New York 6	NY
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
ELECTRONIC ASSOCIATES, INC.		
Adv Pg 55	Long Branch	NJ

English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Ferranti-Packard Electric Ltd.	Industry St. Toronto 15, Ontario, Canada	
Franklin Institute	Philadelphia 3	Pa
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M.	Box 608, San Diego 12	Cal
General Electric Co. Computer Div.	13430 N Black Canyon Hwy. Phoenix	Ariz
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Interatom, GmbH.	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Little Inc., Arthur D.	35 Acorn Park, Cambridge 40	Mass
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
McKee & Co., Arthur G.	2300 Chester Ave. Cleveland 1	Ohio
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Middle West Service Co.	20 N Wacker Dr. Chicago	Ill
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Philbrick Researches, Inc., G. A.	127 Clarendon St. Boston 16	Mass
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Quantum, Inc.	Lufbery Ave. Wallingford	Conn
RCA SERVICE CO. NUCLEAR & SCIENTIFIC SERVICES,		
Adv Pg 48	Cherry Hill, Delaware Tp. Camden 8	NJ
Reeves Instrument Corp.	E Gate Blvd. Garden City	NY
Short Bros & Harland Ltd.	Queens Island, Belfast, Ireland	
Solartron Electronic Group Ltd.	Victoria Rd. Farnborough, Hants, Eng	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TRG, Inc.	2 Aerial Way, Syosset	NY
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Wallin Optical Systems Inc.	18670 Ventura Blvd. Tarzana	Cal
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 138, 139, 140	Forest Hills	Pa

SERV. & CONS'LT: CRITICAL EXPERIMENTS

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M.	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
MARTIN CO. NUCLEAR DIV. Adv Pg 5	Mail G-3037 Baltimore 3	Md
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 138, 139, 140	Forest Hills	Pa

SERV. & CONS'LT: CRITICALITY-HAZARD EVALUATION

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Boon-Allen Applied Research, Inc.	1031 Waukegan Rd. Glenview	Ill
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Combustion Engineering Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Dewey Corp., G. C.	202 E 44th St. New York 36	NY
Ebasco Services Inc.	2 Rector St. New York 6	NY
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M.	Box 608, San Diego 12	Cal
General Nuclear Engineering Corp.	Box 245, Dunedin	Fla
Holmes & Narver, Inc.	828 S Figueroa LA 17	Cal
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
Nuclear Technology Corp.	Irvington	NY
Patterson Moos Research Div. Lessona Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
Quantum, Inc.	Lufbery Ave. Wallingford	Conn
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
TRG, Inc.	2 Aerial Way, Syosset	NY
Thompson & Co., John L.	1118-22nd St. NW, Washington 7	DC
VITRO CORP. OF AMERICA,		
Adv. Pgs. 213, 276H	261 Madison Ave. New York 36	NY
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 138, 139, 140	Forest Hills	Pa

SERV. & CONS'LT: DECONTAMINATION

Aircraft & Missile Consultants	2722 Ardmore Ave. Manhattan Beach	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminta Ave. Panorama City	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
BIOCHEMICAL PROCEDURES NUCLEAR ASSAY DIV.		
Adv Pg 61	12020 Chandler Blvd. N Hollywood	Cal
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Coastwise Marine Disposal Co.	Box 43556, Hyde Park Sta. L A 62	Cal
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Filtronics Inc.	Box 200, Cowell	Cal
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Franklin Systems, Inc.	2734 Hillsboro Rd. W Palm Beach	Fla
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
General Coach Works of Can. Ltd.	Hensall, Ont Canada	
Interatom, GmbH.	Bensberg/Koeln, Postfach, Germany	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
Nuclear Decontamination Corp.	Apollo	Pa
Nuclear Engineering Co. Inc.	65 Ray St. Box 218, Pleasanton	Cal
Nuclear Laundry Service Inc.	Box 4145, Waterbury 14	Conn
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
PINTSCH BAMAG AG, Adv Pg 276C	Postfach 11, Butzbach, Germany	
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St. Louisville 10	Ky
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Sharpe, Leon M.	61 Broadway, New York 6	NY
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
ULTRASONIC INDUSTRIES, INC.		
Adv Pg 59	141 Albertson Ave. Albertson	NY
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal

SERV. & CONS'LT: ENCAPSULATION, RADIOACTIVE SOURCE

AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Bacon Industries, Inc.	192 Pleasant St. Watertown	Mass
Biggs Co., Carl H.	1547 14th St. Santa Monica	Cal
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass

Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Cook Technological Center Div.	6401 Oakton St, Morton Grove	Ill
Curtis Nuclear Corp.	1645 W 135th St, Gardena	Cal
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Nuclear Research Corp.	Southampton	Pa
RADIUM CHEMICAL CO. INC. Adv Pg 14	161 E 42nd St. New York 17	NY
Randolph Co.	1018 Rosine St. Houston 19	Tex
Raytheon Co, Ind. Comps. Div.	55 Chapel St, Newton	Mass
Raytheon Co, Semiconductor Div.	215 1st Ave, Needham Hgts.	Mass
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Telechrome Mfg. Corp.	28 Ranick Dr, Amityville	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
U. S. RADIUM CORP. Adv Pg 90	Box 246, Morristown	NJ
U.S. Radium Corp. (Europe)	36 Ave. Krieg, Geneva, Switzerland	
Walkirt Co.	141 W Hazel St, Inglewood 3	Cal
Western Radiation Lab.	1107 W 24 St, Los Angeles 7	Cal

SERV. & CONS'LT: ENGINEER-CONSTRUCTOR

AB Scienta	Kvillegatan 9B, Box 366, Goeteborg	Swed
AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
Advanced Technology Labs.	369 Whisman Rd. Mountain View	Cal
Allied Engineering & Production Corp.	2421 Blanding Ave, Alameda	Cal
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
American Instrument Co. Inc.	8030 Georgia Ave, Silver Spring	Md
Anaconda Co.	25 Broadway, New York 4	NY
Andel & Co. Inc.	5218 N Kedzie Ave. Chicago 25	Ill
Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
Austin Co.	16112 Euclid Ave. Cleveland 12	Ohio
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	Dept H B, Philadelphia 42	Pa
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
Bechtel Corp.	220 Bush St. San Francisco 4	Cal
BELGONUCLEAIRE, Adv Pg 138	35 rue des Colonies, Bruxelles 1, Belgium	
Blaw-Knox Co.	300 6th Ave. N. B. Pittsburgh 22	Pa
Bohna & Co. Inc., B. D.	515 Market St. San Francisco 5	Cal
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Brodsky, Hopf & Adler	220 E 23rd St. New York 10	NY
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Catalytic Construction Co.	1528 Walnut St. Philadelphia 2	Pa
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Consolidated Western Steel Div. U. S. Steel Corp.	Box 2015, Term. Ann. L A 54	Cal
Cummins & Barnard, Inc.	2058 S State, Ann Arbor	Mich
Dilworth, Secord, Meagher & Assoc Ltd	4214 Dundas St. W Toronto, Ont Canada	
Djordjevic Engineering Co.	1933 N Damen, Chicago 47	Ill
Ebasco Services Inc.	2 Rector St, New York 6	NY
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Electro-Watt Elec & Ind Mgmt Co Ltd.	Talacker 16, Zurich 22, Swit	
Fegles Construction Co.	2110 Nicollet Ave, Minneapolis	Minn
Ferguson Co., H. K.	1783 E 11th St. at Walnut, Cleveland 14	Ohio
Fluor Corp. Ltd.	12000 E Washington Blvd, Whittier	Cal
Ford, Bacon & Davis, Inc.	2 Broadway, New York 4	NY
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can.	
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Gannett Fleming Corddry & Carpenter Inc	600 N 2nd St, Harrisburg	Pa
Gilbert Associates, Inc.	525 Lancaster Ave. Reading	Pa
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. Adv Pg 106	4809 Tod Ave. East Chicago	Ind
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Holmes & Narver, Inc.	828 S Figueroa LA 17	Cal
Humphreys & Glasgow Ltd.	22 Carlisle Pl, London SW1, England	
INDATOM, Adv Pg 276F	48 rue de la Bastie, Paris 8, France	
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
Kaiser Engineers	300 Lakeside Dr. Oakland 12	Cal
Kuljian Corp.	1200 N Broad St. Philadelphia 21	Pa
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Leybold-Hochvakuum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
LOMA MACHINE MFG. CO. INC. Adv Pg 226	114 E 32 St. New York	NY
McKee & Co., Arthur G.	2300 Chester Ave. Cleveland 1	Ohio
Magnetic Amplifiers Div. Siegler Corp.	632 Tinton Ave. New York 55	NY
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Maxon Construction Co, Inc.	2600 Far Hills Ave. Dayton 19	Ohio
MIDWEST PIPING CO. INC. Adv Pg 71	1450 S 2nd St. St. Louis 4	Mo
Morfax Ltd.	Willow Ln, Mitcham, Surrey, England	
Nuclear Civil Constructors	52-55 Carnaby St. London, W 1, Eng	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
Panellit Div. ISI Inc.	7401 N Hamlin Ave. Skokie	Ill
Parsons Co., Ralph M.	617 W 7th St. Los Angeles 17	Cal
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Power Service Corp.	2110 Nicollet Ave, Mpls.	Minn
Pritchard & Co., J. F.	4625 Roanoke Pkwy. Kansas City	Mo
Rust Engineering Co.	2316 4 Ave. N, Birmingham 3	Ala
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Sanderson & Porter	72 Wall St. New York 5	NY
Singmaster & Breyer, Inc.	420 Lexington Ave. New York 17	NY
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Stone & Webster Engineering Corp.	49 Federal St. Boston 7	Mass
Sumner Sollitt Co.	307 N Michigan Ave. Chicago 1	Ill
Thompson & Co., John L.	1118-22nd St. NW, Washington 7	DC
Thompson, Ltd., John	Wolverhampton, England	
U. S. Testing Co. Inc.	1415 Park Ave. Hoboken	NJ
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
VITRO CORP. OF AMERICA, Adv. Pgs. 213, 276H	261 Madison Ave. New York 35	NY
White Engineering Corp. J. G.	80 Broad St, New York 4	NY
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore

SERV. & CONS'LT: ENVIRONMENTAL SURVEYS

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
Aireco, Inc.	2323 2nd Ave. Carmen, Schenectady	NY
Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
ASSOCIATED TESTING LABS. INC. Adv Pg 268	134 Rte. 46, Wayne	NJ
ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMATION, INC. DIV. C. W. REED CO. INC. Adv Pg 233	5959 S Hoover, L A 44	Cal
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminta Ave. Panorama City	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Belock Instrument Corp.	112-03 14th Ave. College Point 56	NY
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd. Glenview	Ill
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC. Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	Box 748, Fort Worth	Tex
Cook Technological Center Div.	6401 Oakton St, Morton Grove	Ill
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Curtis Nuclear Corp.	1645 W 135th St, Gardena	Cal
Designers for Industry, Inc.	4941 Fulton Pkwy, Cleveland 9	Ohio
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Electronic Communications, Inc.	1501 72nd St. N, St. Petersburg	Fla
Holmes & Narver, Inc.	828 S Figueroa LA 17	Cal
Industrial X-Ray & Research, Inc.	880 Second St, Muskegon	Mich
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Ionics Inc.	152 Cch St, Cambridge 42	Mass
Isoserve Inc.	131 Portland St, Cambridge 39	Mass
ISOTOPES INC. Adv Pg 116	123 Woodland Ave. Westwood	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
JOHNSTON LABS. INC., WILLIAM H., Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
Kaiser Aluminum & Chemical Sls. Inc.	1924 Broadway, Oakland	Cal
Kinney, Inc., A. M.	2912 Vernon Pl. Cincinnati 19	Ohio
LANDAUER, JR. & CO., R. S. Adv Pg 256	3920 214th St. Matteson	Ill
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Lockwood Greene Engineers, Inc.	41 E 42nd St, New York 17	NY
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo

Nuclear Engineering Co. Inc.	65 Ray St. Box 218, Pleasanton	Cal
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
NUCLEAR MEASUREMENTS CORP.		
Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
Occupational Hygiene Services	234 Calvary St, Waltham 54	Mass
Pickard-Warren-Lowe Assoc.	1025 Conn Ave, NW, Wash 6	DC
Quantum, Inc.	Lufbery Ave. Wallingford	Conn
RCA SERVICE CO. NUCLEAR & SCIENTIFIC SERVICES,		
Adv Pg 48	Cherry Hill, Delaware Tp. Camden 8	NJ
Radiation Detection Co.	4047-49 Transport St. Palo Alto	Cal
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St. Louisville 10	Ky
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
Rotherm Engineering Co. Inc.	7200 W Devon Ave. Chicago	Ill
SELO	Via Monfalcone, 12, Milano, Italy	
St. John X-Ray Laboratory	Califon	NJ
SHARP LABORATORIES, INC.		
Adv Pg 248	Box 1302, La Jolla	Cal
Sharpe, Leon M.	61 Broadway, New York 6	NY
State Testing Lab. Inc.	227 Knowlton St. Bridgeport 8	Conn
TRG, Inc.	2 Aerial Way, Syosset	NY
Technology Instrument Corp.	531 Main St, Acton	Mass
Tenney Engineering, Inc.	1090 Springfield Rd, Union	NJ
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
U. S. Testing Co. Inc.	1415 Park Ave. Hoboken	NJ
York Research Corp.	1 Research Dr. Stamford	Conn

SERV. & CONS'LT: FILM BADGE, BETA-GAMMA

Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomic Film Badge Corp.	43 W 61st St. New York 23	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Health Physics Services, Inc.	1111 Low St, Baltimore 2	Md
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
LANDAUER, JR. & CO., R. S. Adv Pg 256	3920 216th St. Matteson	Ill
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR SERVICE LABS. INC.		
Adv Pg 222	Box 1885, Knoxville 1	Tenn
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St. Brooklyn 31	NY
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
Radiation Detection Co.	4047-49 Transport St. Palo Alto	Cal
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
St. John X-Ray Laboratory	Califon	NJ
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
X-Ray Monitoring Corp.	43 W 61 St, New York 23	NY

SERV. & CONS'LT: FILM BADGE, NEUTRON

AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomic Film Badge Corp.	43 W 61st St. New York 23	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
LANDAUER, JR. & CO., R. S. Adv Pg 256	3920 216th St. Matteson	Ill
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR SERVICE LABS. INC. Adv Pg 222	Box 1885, Knoxville 1	Tenn
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Radiation Detection Co.	4047-49 Transport St. Palo Alto	Cal
St. John X-Ray Laboratory	Califon	NJ
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
X-Ray Monitoring Corp.	43 W 61 St. New York 23	NY

SERV. & CONS'LT: FUEL-SCRAP RECOVERY

Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Eldorado Mining & Refining Ltd.	John St. Port Hope, Ontario, Canada	
GRACE & CO. W. R., DAVISON CHEMICAL DIV.		
Adv Pg 51	Erwin	Tenn
MALLINCKRODT NUCLEAR CORP.		
Adv Pg 29	2nd & Mallinckrodt Sts. St. Louis 7	Mo
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Olin Mathieson Chemical Corp, Nuclear Fuels Oper.	275 Winchester Ave, New Haven	Conn
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Sharpe, Leon M.	61 Broadway, New York 6	NY
SPENCER CHEMICAL CO. Adv Pg 88	500 Dwight Bldg. Kansas City 5	Mo

SERV. & CONS'LT: HEALTH PHYSICS ORGANIZATION & PROCEDURES

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Andel & Co. Inc.	5218 N Kedzie Ave. Chicago 25	Ill
Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminta Ave. Panorama City	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Battelle-Institut e. V.	Wiesbadener Str, Frankfurt-Main, Ger	
BIOCHEMICAL PROCEDURES NUCLEAR ASSAY DIV.		
Adv Pg 61	12020 Chandler Blvd. N Hollywood	Cal
Black & Veatch Consulting Engineers	1500 Meadow Lake Pkwy. Kansas City 14	Mo
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd. Glenview	Ill
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Coastwise Marine Disposal Co.	Box 43556, Hyde Park Sta. L A 62	Cal
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cook Technological Center Div.	6401 Oakton St, Morton Grove	Ill
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Curtis Nuclear Corp.	1645 W 135th St, Gardena	Cal
Ebasco Services Inc.	2 Rector St. New York 6	NY
Eberline Instrument Corp.	Box 279, Santa Fe	NM
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Ericsson Telephones Ltd.	High Church St, New Basford, Nott. Eng	
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Industrial Hygiene Associates	295 Upland Ave. Newton Highlands 61	Mass
Industrial X-Ray & Research, Inc.	880 Second St. Muskegon	Mich
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Ionics Inc.	152 6th St, Cambridge 42	Mass
Isoserve Inc.	131 Portland St. Cambridge 39	Mass
ISOTOPES INC. Adv Pg 116	123 Woodland Ave. Westwood	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B.,		
Adv Pg 255	Box 415 Mountain Lakes	NJ
LANDAUER, JR. & CO., R.S. Adv Pg 256	3920 216th St. Matteson	Ill
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
National Spectrographic Lab. Inc.	6300 Euclid Ave. Cleveland 3	Ohio
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	2 Richwood Pl. Denville	NJ
Nuclear Engineering Co. Inc.	65 Ray St. Box 218, Pleasanton	Cal
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
NUCLEAR SERVICE LABS. INC. Adv Pg 222	Box 1885, Knoxville 1	Tenn
Nuclear Technology Corp.	Irvington	NY
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Olin Mathieson Chemical Corp, Nuclear Fuels Oper.	275 Winchester Ave, New Haven	Conn
Plessey Nucleonics Ltd.	Weedon Rd, Northampton, England	
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
Quantum, Inc.	Lufbery Ave. Wallingford	Conn
RCA SERVICE CO. NUCLEAR & SCIENTIFIC SERVICES,		
Adv Pg 48	Cherry Hill, Delaware Tp. Camden 8	NJ
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
Radiation Detection Co.	4047-49 Transport St. Palo Alto	Cal
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St. Louisville 10	Ky
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
SELO	Via Monfalcone, 12, Milano, Italy	

St. John X-Ray Laboratory	Califon	NJ
Sharpe, Leon M.	61 Broadway, New York 6	NY
Siemens-Reiniger-Werke AG.	Luipoldstr. 45, Erlangen, Germany	
TRG, Inc.	2 Aerial Way, Syosset	NY
Thompson & Co., John L.	1118-22nd St. NW, Washington 7	DC
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
U. S. Testing Co. Inc.	1415 Park Ave. Hoboken	NJ
VICTOREEN INSTRUMENT CO.		
Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
York Research Corp.	1 Research Dr. Stamford	Conn

SERV. & CONS'LT: HOT LABORATORY

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Admiral Corp.	3800 W Cortland St. Chicago 47	Ill
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
ALLIED RESEARCH ASSOCIATES, INC.		
Adv Pg 107	43 Leon St. Boston 15	Mass
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminta Ave. Panorama City	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Cook Technological Center Div.	6401 Oakton St, Morton Grove	Ill
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Curtis Nuclear Corp.	1645 W 135th St, Gardena	Cal
Dolio & Associates, John	208 S La Salle St. Chicago 4	Ill
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Garde Mfg. Co.	53 John St. Cumberland	RI
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS.		
Adv Pg 74	Box 90515, Intl. Airpt. Sta. LA 45	Cal
Hull Associates	30 W Monroe St, Chicago 3	Ill
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Leybold-Hochvakum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
Robert & Co., Associates	96 Poplar St. NW, Atlanta 3	Ga
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Siemens-Reiniger-Werke AG.	Luipoldstr. 45, Erlangen, Germany	
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
VITRO CORP. OF AMERICA,		
Adv. Pgs. 213, 276H	261 Madison Ave. New York 36	NY
WESTINGHOUSE TESTING REACTOR,		
Adv. Pgs. 138, 139, 141	Box 1075, Pittsburgh 30	Pa

SERV. & CONS'LT: IN-PILE TEST DESIGN

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Blaw-Knox Co.	300 6th Ave. N. B. Pittsburgh 22	Pa
Boucher & Co. Ltd.	Pike Mills, Green St. Kidderminster, Worcester, England	
Brodsky, Hopf & Adler	220 E 23rd St. New York 10	NY
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
General Nuclear Engineering Corp.	Box 245, Dunedin	Fla
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks.	Eng
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
INDATOM, Adv Pg 276F	48 rue de la Boetie, Paris 8, France	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
Kaiser Engineers	300 Lakeside Dr, Oakland 12	Cal
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Sharpe, Leon M.	61 Broadway, New York 6	NY
Vickers-Armstrongs (E. Marston) Ltd.	Swindon, Wiltshire, England	
VITRO CORP. OF AMERICA,		
Adv. Pgs. 213, 276H	261 Madison Ave. New York 36	NY
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 138, 139, 140	Forest Hills	Pa
WESTINGHOUSE TESTING REACTOR,		
Adv. Pgs. 138, 139, 141	Box 1075, Pittsburgh 30	Pa

SERV. & CONS'LT: INSURANCE

BABB & CO. Adv Pg 265	3 Gateway Center, Pittsburgh 22	Pa
Ebasco Services Inc.	2 Rector St, New York 6	NY
Frankel Co.	437 Grant St, Pittsburgh 19	Pa
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Marsh & McLennan, Inc.	231 S LaSalle St. Chicago 4	Ill
Middle West Service Co.	20 N Wacker Dr. Chicago	Ill
Mutual Boiler & Machy Insurance Co.	225 Wyman St, Waltham 54	Mass
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
Penna. Threshermen & Farmers Mut Cas Ins. Co.	1900 Derry St. Harrisburg	Pa

SERV. & CONS'LT: IRRADIATION-ACCELERATOR

Admiral Corp.	3800 W Cortland St. Chicago 47	Ill
A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
Greene Testing Labs, Inc., Arnold	6 Huron Dr, Natick	Mass
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
HIGH VOLTAGE ENGINEERING CORP.		
Adv Pg 146	5 Bedford St. Burlington	Mass
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS.		
Adv Pg 74	Box 90515, Intl. Airpt. Sta. LA 45	Cal
Isoserve Inc.	131 Portland St, Cambridge 39	Mass
Little Inc., Arthur D.	35 Acorn Park, Cambridge 40	Mass
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
Radiation Dynamics Inc.	Westbury Industrial Pk. Westbury	NY
Sharpe, Leon M.	61 Broadway, New York 6	NY
TEXAS NUCLEAR CORP.		
Adv. Pgs. 228, 229	Box 9267, Allandale Sta. Austin 17	Tex
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn

SERV. & CONS'LT: IRRADIATION-ISOTOPIC

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Admiral Corp.	3800 W Cortland St. Chicago 47	Ill
ANTON ELECTRONIC LABS. INC.		
Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
Atomic Energy of Canada Ltd, Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Battelle-Institut e. V.	Wiesbadener Str, Frankfurt-Main, Ger	
Bleiwerk Goslar GmbH	Goslar, Germany	
Brown Ind. Ltd., David	Hampson St, Manchester, England	

Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Cook Technological Center Div.	6401 Oakton St, Morton Grove	Ill
Greene Testing Labs, Inc., Arnold	6 Huron Dr, Natick	Mass
International Shielding Industries	Foot of West St, Wilmington	Del
Isoserve Inc.	131 Portland St, Cambridge 39	Mass
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Knapp Mills Inc.	23-15 Borden Ave, LIC	NY
Little Inc., Arthur D.	35 Acorn Park, Cambridge 40	Mass
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Nydqvist & Holm Aktiebolag	Trollhattan, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	PO Drawer E, Alamoda	Cal
Quantum, Inc.	Lufbery Ave, Wallingford	Conn
Radiation Applications, Inc.	36-40 37th St, Long Island City 1	NY
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
St. John X-Ray Laboratory	Califon	NJ
Sharpe, Leon M.	61 Broadway, New York 6	NY
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St, Box 208, Burbank	Cal
WESTINGHOUSE TESTING REACTOR,		
Adv. Pgs. 138, 139, 141	Box 1075, Pittsburgh 30	Pa

SERV. & CONS'LT: IRRADIATION-REACTOR

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave, New York 16	NY
Admiral Corp.	3800 W Cortland St, Chicago 47	Ill
Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Atomic Energy of Canada Ltd, Atomics International Div. NAA	Box 309, Canoga Park	Cal
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd, Schenectady 5	NY
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Isoserve Inc.	131 Portland St, Cambridge 39	Mass
Little Inc., Arthur D.	35 Acorn Park, Cambridge 40	Mass
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. Atlanta 5	Ga
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
Sharpe, Leon M.	61 Broadway, New York 6	NY
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
WESTINGHOUSE TESTING REACTOR,		
Adv. Pgs. 138, 139, 141	Box 1075, Pittsburgh 30	Pa

SERV. & CONS'LT: LAUNDRY-CONTAMINATED CLOTHING

Defense Apparel	115 Allyn St, Hartford	Conn
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Interstate Industrial Uniform Rental Service	295 Parker St, Indian Orchard	Mass
Nuclear Decontamination Corp.	Apollo	Pa
Nuclear Engineering Co. Inc.	65 Ray St, Box 218, Pleasanton	Cal
Nuclear Laundry Service Inc.	Box 4145, Waterbury 14	Conn
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St, Brooklyn 31	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
York Research Corp.	1 Research Dr, Stamford	Conn

SERV. & CONS'LT: LEAK TESTING

Allied Engineering & Production Corp.	2421 Blanding Ave, Alameda	Cal
American Electronics Inc. Nuclear Div.	9459 W Jefferson Blvd, Culver City	Cal
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminto Ave, Panorama City	Cal
Battelle-Institut e. V.	Wiesbadener Str, Frankfurt-Main, Ger	
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Cambridge Div. Standard Steel Corp.	2 Industrial Pk, Lowell	Mass
Combustion Engineering, Inc.	200 Madison Ave, New York 16	NY
Devco Engineering Inc. Control Systems Div.	Pier Lane W, Caldwell	NJ
Dollo & Associates, John	208 S La Salle St, Chicago 4	Ill
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd, Schenectady 5	NY
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Industrial X-Ray & Research, Inc.	880 Second St, Muskegon	Mich
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd, London, SW1, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Leybold-Hochvakuum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
Leybold's Nachfolger, E.	Bonner Str. 504, Koln-Bayenthal, Ger	
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave, New York 36	NY
PHYSICAL SCIENCES CORP. Adv Pg 263	389 N Fair Oaks, Pasadena	Cal
Pittsburgh Testing Lab.	1330 Locust St, Pittsburgh 19	Pa
Racey MacCallum & Assoc. Ltd.	5890 Monkland Ave, Montreal, Can	
Radiation Detection Co.	4047-49 Transport St, Palo Alto	Cal
Radiation Engineering, Inc.	4924 Poppleton Ave, Omaha	Neb
RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St, Louisville 10	Ky
Radionics Inc.	Lafayette & Water Sts, Norristown	Pa
St. John X-Ray Laboratory	Califon	NJ
State Testing Lab, Inc.	227 Knowlton St, Bridgeport 8	Conn
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 896, Attleboro	Mass
THOMSON-HOUSTON (CIE. FRANCAISE),		
Adv Pg 276B	173 Blvd. Haussman, Paris 8, France	
U. S. Testing Co. Inc.	1415 Park Ave, Hoboken	NJ
Vacuum Apparatus Co.	906 Industrial Ave, Palo Alto	Cal
Vacuum Instrument Corp.	Huntington Station	NY
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St, Cambridge, Eng	
Water Associates	45 Franklin St, Framingham	Mass
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.		
Adv. Pgs. 138, 139, 144	Cheswick	Pa
York Research Corp.	1 Research Dr, Stamford	Conn

SERV. & CONS'LT: MAINTENANCE/INSTALLATION NUCLEAR INSTRUMENTATION

RCA SERVICE CO. NUCLEAR & SCIENTIFIC SERVICES,		
Adv Pg 48	Cherry Hill, Delaware Tp. Camden 8	NJ

SERV. & CONS'LT: MATERIALS HANDLING

See Also CRANES
MANIPULATORS—HEAVY-DUTY
MANIPULATORS—REMOTE
TONGS

Aircraft Ground Equipment	160 Blackswarth Rd, Bristol, Eng.	
Allied Engineering & Production Corp.	2421 Blanding Ave, Alameda	Cal
Allstates Design & Devel. Co. Inc.	25 N Warren St, Trenton	NJ
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
BAIRD-ATOMIC, INC. Adv Pg 63	33 University Rd, Cambridge 38	Mass
Barnes & Reinecke, Inc.	230 E Ohio St, Chicago 11	Ill
Batcheller, Inc., Willis T.	704 3rd Ave, Seattle 4	Wash
Battelle-Institut e. V.	Wiesbadener Str, Frankfurt-Main, Ger	
Boos-Allen Applied Research, Inc.	1031 Waukegan Rd, Glenview	Ill
Boucher & Co. Ltd.	Pike Mills, Green St, Kidderminster, Worcester, England	
BROOKS & PERKINS, INC. Adv Pg 48	1926 W Fort St, Detroit 16	Mich
Bullard Co., E. D.	2680 Bridgeway, Sausalito	Cal
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Consolidated Western Steel Div. U. S. Steel Corp.	Box 2015, Term. Ann. L A 54	Cal
Cooper Co., D. C.	1467 S Michigan Ave, Chicago	Ill
Dilworth, Secord, Meagher & Assoc Ltd	4214 Dundas St, W Toronto, Ont Canada	
Djordjevic Engineering Co.	1933 N Damen, Chicago 47	Ill
Dollo & Associates, John	208 S La Salle St, Chicago 4	Ill
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd, Detroit 32	Mich
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd, London, SW1, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Kuljian Corp.	1200 N Broad St, Philadelphia 21	Pa
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga

Marquardt Corp.	16555 Saticoy St., Van Nuys	Cal
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		**Pa**
NUCLEAR SERVICE CONSULTANTS, INC. Adv Pg 133	**630 11th Ave. New York 36**	**NY**
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PHOENIX-RHEINROHR AG, Adv Pg 276K	**August-Thyssen-Str. 1, Duesseldorf, Ger**	
Planer Ltd., G.V.	Windmill Rd. Sunbury-on-Thames, Middx. Eng	
Pulverizing Machinery Co. Div. American-Marietta Co.	Chatham Rd. Summit	NJ
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
RELIANCE INCORPORATED, Adv Pg 261	**1216-1212 Adams Ave. Phila 24**	**Pa**
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
Stanray Corp	200 S Michigan Ave. Chicago 4	Ill
Thompson & Co., John L	1118-22nd St. NW, Washington 7	DC
Thompson, Ltd., John	Wolverhampton, England	
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. Adv. Pgs. 76, 77	**Beech St. Beverly**	**Mass**
VITRO CORP. OF AMERICA, Adv. Pgs. 213, 276H	**261 Madison Ave. New York 36**	**NY**

SERV. & CONS'LT: METAL FABRICATION, SPECIAL SHAPES

Aero Supply Mfg. Co. Inc.	Corry	Pa
Aircraft Ground Equipment	160 Blackwarth Rd. Bristol, Eng.	
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Allison Div. Gen. Motors Corp.	Box 894, Indianapolis	Ind
Alloys Unlimited, Inc.	21-01 43rd Ave. LIC 1	NY
Alpha Metals, Inc.	60R Water St, Jersey City 4	NJ
AMERAY CORP. Adv Pg 114	**Route 46, Kenvil**	**NJ**
American Metal Products Co.	5959 Lindale Ave. Detroit 4	Mich
American Silver Co. Inc.	36-07 Prince St. Flushing 54	NY
American Welding & Mfg. Co.	555 Dietz Rd. Warren	Ohio
Associated Engng. & Mfg. Corp.	210 Stonehouse Rd. Glen Ridge	NJ
Avondale Shipyards, Inc.	Box 1030, New Orleans 8	La
Ayling Nuclear Equip. Co. Ltd.	Foundry La. Horsham, Sussex, England	
BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St. New York 17**	**NY**
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	**Dept N B, Philadelphia 42**	**Pa**
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bishop & Co., J., Platinum Works	Malvern	Pa
Bleiwerk Goslar GmbH	Goslar, Germany	
Blickman, Inc., S.	7900 Gregory Ave. Weehawken	NJ
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
BROOKS & PERKINS, INC. Adv Pg 48	**1926 W Fort St. Detroit 16**	**Mich**
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Bud Radio, Inc.	2118 E 55 St. Cleveland 3	Ohio
CPC Engineering Corp.	Sturbridge	Mass
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W, Montreal, Que Can	
Consolidated Reactive Metals, Inc.	115 Hoyt St. Mamaroneck	NY
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	**Box 748, Fort Worth**	**Tex**
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Cook Technological Center Div.	6401 Oakton St, Morton Grove	Ill
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
Cryogenerators Inc.	Ashton	RI
Curtiss-Wright Corp. Metals Processing Div.	Buffalo 15	NY
Division Lead Co.	7742 W 61st Pl. Summit	Ill
Dow Chemical Co.	Midland	Mich
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks.	Goldsmith Ave. Portsmouth, Hants, Eng	
EX-CELL-O CORP. Adv. Pgs. 62, 63	**1200 Oakman Blvd. Detroit 32**	**Mich**
Firth-Derihon Stampings Ltd.	Dale Rd. N, Darley Dale, Nr. Matlock, Derbyshire, England	
Garde Mfg. Co.	53 John St. Cumberland	RI
General Alloys Co.	400 W 1st St. Boston 27	Mass
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
Harty Co. Inc., R. V.	1633 Sloman Ave. Detroit 11	Mich
HARVEY ALUMINUM, Adv Pg 93	**19200 S Western Ave. Torrance**	**Cal**
Harvey & Co. (London) Ltd., G. A.	Woolwich Rd. London, SE7, England	
Hassall, Inc., John	Box 2278, Westbury	NY
Ingersoll Steel Div. Borg-Warner Corp	New Castle	Ind
International Shielding Industries	Foot of West St. Wilmington	Del
Jerphak-Bayless Co.	34155 Solon Rd. Solon	Ohio
Kaiser Fleetwings, Inc.	Bristol	Pa
KELLEY & CO., O. G. Adv Pg 30	**98 Taylor St. Boston 22**	**Mass**
Kelley Industries Inc.	Eighty-Four	Pa
Kelsey-Hayes Co. Utica Drop Forge & Tool Div.	Utica 4	NY
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
Kulite Tungsten Co.	1040 Hoyt Ave, Ridgefield	NJ
L. & F. MACHINE CO. Adv Pg 238	**2110 Belgrove Ave. Huntington Park**	**Cal**
L & S Machine Co, Inc.	RD2, Box 317 Latrobe	Pa
Ladish Co.	5481 S Packard Ave, Cudahy	Wis
Lavezzi Machine Works	4635 W Lake St, Chicago 44	Ill
Lennard Co. Inc., P. M.	1061 E 8th St, Jacksonville 6	Fla
LINCOLN FOUNDRY CORP. Adv Pg 238	**2525 E 49 St. Los Angeles**	**Cal**
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Lytle Corp.	1404 San Mateo SE Albuquerque	NM
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Mason, Shaver & Rhoades, Inc.	Box 551, Irwin	Pa
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. Adv Pg 60	**St. Louis**	**Mich**
MIDWEST PIPING CO. INC. Adv Pg 71	**1450 S 2nd St. St. Louis 4**	**Mo**
Morfax Ltd.	Willow La. Mitcham, Surrey, England	
Mosler Safe Co.	Grand Blvd. Hamilton	Ohio
NATIONAL ANNEALING BOX CO. Adv Pg 268	**Washington**	**Pa**
NATIONAL LEAD CO. Adv. Pgs. 134, 135	**111 Broadway, New York 6**	**NY**
New London Instrument Co.	Box 189 New London	Conn
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		**Pa**
Nuclear Metals, Inc.	Box 222 Concord	Mass
Nydqvist & Holm Aktiebolag	Trollhattan, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
Olin Mathieson Chemical Corp, Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO. Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
Penn Fibre & Specialty Co.	2020 E Westmoreland St. Philadelphia 34	Pa
Pfaudler Co. Div. Pfaudler Permutit Inc.	1000 West Ave, Rochester 3	NY
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
PITTSBURGH PIPING & EQUIPMENT CO. Adv Pg 246	**158 49th St. Pittsburgh**	**Pa**
Poole & Co. (Sutton) Ltd., R. A.	Willow Walk, Sutton, Surrey, England	
PRECISION EXTRUSIONS INC. Adv Pg 248	**720 E Green Ave. Bensonville**	**Ill**
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Radiation Products, Inc.	Pt. 40 Rd, Flushing 52	NY
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
Rimak Electronics Inc.	10929 Vanowen St. No. Hollywood	Cal
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
Rolock Inc.	1350 Kings Hwy, Fairfield	Conn
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Southern Lead Rolling Co.	Box 6195, Dallas 22	Tex
Southwest Fabricating & Welding Co. Inc.	7625 Sherman St. Houston 11	Tex
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Steel & Alloy Tank Co.	Pr. Bessemer St. Newark 5	NJ
Sturtevant Mill Co.	103 Clayton St. Boston 22	Mass
SUPERIOR TUBE CO. Adv Pg 28	**Box 191, Norristown**	**Pa**
Taylor Engineering Corp.	6500 Epworth Blvd, Detroit 10	Mich
Terriss-Consolidated Industries	22-24 Wooster St. New York 13	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary). Adv Pg 2	**Box 898, Attleboro**	**Mass**
Thermal Dynamics Corp.	Lebanon	NH
Thompson, Ltd., John	Wolverhampton, England	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Trio Machine Works, Inc.	3045 N 3rd St. Philadelphia 33	Pa
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Westinghouse Elec Corp, Materials Mfg.	Blairsville	Pa
Wheeler Mfg. Co. C. H.	1850 Sedgley Ave. Philadelphia 32	Pa
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore
York Corp.	Grantley Rd. York	Pa
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

SERV. & CONS'LT: METALLURGICAL, RESEARCH & DEVELOPMENT

Advanced Technology Labs.	369 Whisman Rd. Mountain View	Cal
AEROJET-GENERAL NUCLEONICS, Adv Pg 119	**Box 77, San Ramon**	**Cal**
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
Allegheny Ludlum Steel Corp.	Oliver Bldg. Pittsburgh 22	Pa
ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	**43 Leon St. Boston 15**	**Mass**
Allison Div. Gen. Motors Corp.	Box 894, Indianapolis	Ind
Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Alpha Metals, Inc.	60R Water St. Jersey City 4	NJ
American Cast Iron Pipe Co.	Box 2603, Birmingham 2	Ala
American Metal Products Co.	5959 Lindale Ave. Detroit 4	Mich
ASTRA, INC. Adv Pg 235	**Box 226, Raleigh**	**NC**

Atlantic Research Corp.	Alexandria	Va
Atlas Titanium, Ltd.	Centre St. Welland, Ontario, Canada	
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Brussellos 1, Belgium	
Bishop & Co., J., Platinum Works	Malvern	Pa
Bjorksten Research Labs. Inc.	Box 265, Madison 1	Wis
Bleiwerk Goslar GmbH	Goslar, Germany	
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
BROOKS & PERKINS, INC. Adv Pg 48	1926 W Fort St. Detroit 16	Mich
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian GE Co. Ltd.	107 Park St. Petersborough, Ont Can	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Carpenter Steel Co.	607 Washington St. Reading	Pa
Cerium Metals & Alloys Div., Ronson Metals Corp.	45-65 Manufacturers Pl. Newark 5	NJ
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Consolidated Reactive Metals, Inc.	115 Hoyt St. Mamaroneck	NY
Consolidated Western Steel Div. U. S. Steel Corp.	Box 2015, Term Ann, L A 54	Cal
Cook Technological Center Div.	6401 Oakton St. Morton Grove	Ill
Cooper Alloy Corp.	Bloy St.-Ramsey Av. Hillside	NJ
Cooper-Trent Blueprint & Microfilm Corp.	2701 Wilson Blvd. Arlington	Va
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Curtiss-Wright Corp. Metals Processing Div.	Buffalo 15	NY
Damascus Tube Co.	Box 71, Greenville	Pa
Division Lead Co.	7742 W 61st Pl. Summit	Ill
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Ebasco Services Inc.	2 Rector St. New York 6	NY
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Electro-Thermal Industries, Inc.	57 S Main St. Pearl River	NY
Fansteel Metallurgical Corp.	North Chicago	Ill
Firth Sterling Inc.	3113 Forbes Ave. Pittsburgh 30	Pa
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Franklin Institute	Philadelphia 3	Pa
Fulmer Research Institute	Stoke Poges, Bucks, England	
Garde Mfg. Co.	53 John St. Cumberland	RI
General Astrometals Corp.	320 Yonkers Ave. Yonkers 2	NY
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GRACE & CO. W. R., DAVISON CHEMICAL DIV.		
Adv Pg 51	Erwin	Tenn
Greene Testing Labs, Inc., Arnold	6 Huron Dr. Natick	Mass
HARVEY ALUMINUM, Adv Pg 93	19200 S Western Ave. Torrance	Cal
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
International Shielding Industries	Foot of West St. Wilmington	Del
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Jarrell-Ash Co.	26 Farwell St. Newtonville 60	Mass
Kaiser Aluminum & Chemical Sls. Inc.	1924 Broadway, Oakland	Cal
Kaiser Fleetwings, Inc.	Bristol	Pa
Kelsey-Hayes Co. Utica Drop Forge & Tool Div.	Utica 4	NY
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
Kulite Tungsten Co.	1040 Hoyt Ave. Ridgefield	NJ
Ladish Co.	5481 S Packard Ave. Cudahy	Wis
Ledoux & Co.	359 Alfred Ave. Teaneck	NJ
Little Inc., Arthur D.	35 Acorn Park, Cambridge 40	Mass
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Mallory & Co., Inc. P. R.	3029 E Washington St. Indnpls. 6	Ind
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
MARTIN CO. NUCLEAR DIV. Adv Pg 5	Mail G-3037 Baltimore 3	Md
Menlo Research Laboratory	1627 Bay Rd. East Palo Alto	Cal
Minerals Refining Co.	Box 367, Murray	Utah
Motherwell Bridge & Engrg. Co. Ltd.	Box 4, Motherwell, Scotland	
NALCO CHEMICAL CO. Adv Pg 53	6318 W 66th Pl. Chicago 38	Ill
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
NATIONAL LEAD CO. Adv. Pgs. 134, 135	111 Broadway, New York 6	NY
National Moldite Co. Inc.	250 South St. Newark 5	NJ
Northern Research & Engrg. Corp.	238 Main St. Cambridge	Mass
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Ontario Research Foundation	43 Queen's Park, Toronto 5, Ont Canada	
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	PO Drawer E, Alameda	Cal
PHOENIX-RHEINROHR AG, Adv Pg 276K	August-Thyssen-Str. 1, Dusseldorf, Ger	
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
Pittsburgh Testing Lab.	1330 Locust St. Pittsburgh 19	Pa
Planer Ltd., G.V.	Windmill Rd. Sunbury-on-Thames, Middx. Eng	
Plasmadyne Corp.	3839 S Main St. Santa Ana	Cal
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
Rimak Electronics Inc.	10929 Vanowen St. No. Hollywood	Cal
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Semi-Alloys Inc.	550 S Fulton Ave. Mt. Vernon	NY
Singmaster & Breyer, Inc.	420 Lexington Ave. New York 17	NY
Solar Aircraft Co.	2200 Pacific Hwy. San Diego 12	Cal
Stainless Foundry & Engineering, Inc.	5132 N 35th St. Milwaukee 9	Wis
State Testing Lab. Inc.	227 Knowlton St. Bridgeport 8	Conn
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Storchheim Research & Devel Corp.	34-32 57th St. Woodside	NY
TRG, Inc.	2 Aerial Way, Syosset	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 896, Attleboro	Mass
Texas Research Foundation	Renner	Tex
Thermal Dynamics Corp.	Lebanon	NH
Thermal Refractories Corp.	4501 Dell Ave. North Bergen	NJ
Thompson & Co., John L.	1118-22nd St. NW. Washington 7	DC
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
Trionics Corp.	Box 548, Madison 1	Wis
Union Steel Corp.	1550 Ashwood Terr. Union	NJ
U. S. Testing Co. Inc.	1415 Park Ave. Hoboken	NJ
Universal Cyclops Steel Corp.	Bridgeville	Pa
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St. Cambridge, Eng	
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
VITRO CORP. OF AMERICA,		
Adv. Pgs. 213, 276H	261 Madison Ave. New York 36	NY
WAH CHANG CORP. Adv Pg 221	233 Broadway, New York 7	NY
Western Gear Corp.	Box 182 Lynwood	Cal
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 138, 139, 140	Forest Hills	Pa
Westinghouse Elec Corp. Materials Mfg.	Blairsville	Pa
York Research Corp.	1 Research Dr. Stamford	Conn

SERV. & CONS'LT: MICROFILMING

BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Cooper-Trent Blueprint & Microfilm Corp.	2701 Wilson Blvd. Arlington	Va
Lytle Corp.	1404 San Mateo SE Albuquerque	NM
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	

SERV. & CONS'LT: MONITORING

Aircraft Equip. Testing Co., Inc.	1808 Fleet St. Baltimore 31	Md
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
American Electronics Inc. Nuclear Div.	9459 W Jefferson Blvd. Culver City	Cal
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminto Ave. Panorama City	Cal
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
BIOCHEMICAL PRECEDURES NUCLEAR ASSAY DIV.		
Adv Pg 61	12020 Chandler Blvd. N Hollywood	Cal
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cook Technological Center Div.	6401 Oakton St. Morton Grove	Ill
Cooper Alloy Corp.	Bloy St.-Ramsey Av. Hillside	NJ
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 110, Princeton	NJ
Djordjevic Engineering Co.	1933 N Damen, Chicago 47	Ill
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Industrial Hygiene Associates	295 Upland Ave. Newton Highlands 61	Mass
Industrial X-Ray & Research, Inc.	880 Second St. Muskegon	Mich
Isoserve Inc.	131 Portland St. Cambridge 39	Mass
ISOTOPES INC. Adv Pg 116	123 Woodland Ave. Westwood	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B.,		
Adv Pg 255	Box 415 Mountain Lakes	NJ
Keuffel & Esser Co.	300 Adams St. Hoboken	NJ
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
LANDAUER, JR. & CO., R. S. Adv Pg 256	3920 216th St. Matteson	Ill

Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
National Spectrographic Lab. Inc.	6300 Euclid Ave. Cleveland 3	Ohio
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
Nuclear Engineering Co. Inc.	65 Ray St. Box 218, Pleasanton	Cal
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
NUCLEAR MEASUREMENTS CORP.		
Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
Planer Ltd., G.V.	Windmill Rd, Sunbury-on-Thames, Mddx.	Eng
Radiation Detection Co.	4047-49 Transport St. Palo Alto	Cal
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
St. John X-Ray Laboratory	Califon	NJ
Sarnia Inspection Co.	246 Tecumseh St. Sarnia, Ontario	Can
SHARP LABORATORIES, INC.		
Adv Pg 248	Box 1392, La Jolla	Cal
State Testing Lab. Inc.	227 Knowlton St. Bridgeport 8	Conn
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Western Gear Corp.	Box 182 Lynwood	Cal
Tork Research Corp.	1 Research Dr. Stamford	Conn

SERV. & CONS'LT: NONDESTRUCTIVE TESTING
See SERVICES: TESTING, NONDESTRUCTIVE

SERV. & CONS'LT: NUCLEAR-FACILITY DESIGN, NONREACTOR

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atlantic Research Corp.	Alexandria	Va
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Austin Co.	16112 Euclid Ave. Cleveland 12	Ohio
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Barnes & Reinecke, Inc.	230 E Ohio St. Chicago 11	Ill
Batcheller, Inc., Willis T.	704 3rd Ave. Seattle 4	Wash
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
Bechtel Corp.	220 Bush St. San Francisco 4	Cal
Beck & Assocs., R. W.	1500 Tower Bldg. Seattle 1	Wash
Black & Veatch Consulting Engineers	1500 Meadow Lake Pkwy, Kansas City 14	Mo
Bleiwerk Goslar GmbH	Goslar, Germany	
Bohna & Co. Inc., B. D.	515 Market St. San Francisco 5	Cal
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd. Glenview	Ill
Boucher & Co. Ltd.	Pike Mills, Green St. Kidderminster, Worcester, England	
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
Brodsky, Hopf & Adler	220 E 23rd St. New York 10	NY
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Catalytic Construction Co.	1528 Walnut St. Philadelphia 2	Pa
Commonwealth Associates, Inc.	209 E Washington Ave. Jackson	Mich
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
Cook Technological Center Div.	6401 Oakton St. Morton Grove	Ill
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Dollo & Associates, John	208 S La Salle St. Chicago 4	Ill
Dornblatt & Assoc. Inc., B. M.	826 Lafayette St. New Orleans 12	La
Ebasco Services Inc.	2 Rector St. New York 6	NY
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Ewbank & Partners Ltd.	11 Grosvenor Pl. London, SW 1, Eng	
Ferguson Co., H. K.	1783 E 11th St. at Walnut, Cleveland 14	Ohio
Fluor Corp. Ltd.	12000 E Washington Blvd. Whittier	Cal
Giffels & Rossetti, Inc.	1000 Marquette Bldg. Detroit 26	Mich
Gilbert Associates, Inc.	525 Lancaster Ave. Reading	Pa
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS.		
Adv Pg 74	Box 90515, Intl. Airpt. Sta. LA 45	Cal
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
International Shielding Industries	Foot of West St. Wilmington	Del
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Ionics Inc.	152 6th St. Cambridge 42	Mass
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Kaiser Engineers	300 Lakeside Dr. Oakland 12	Cal
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
Kuljian Corp.	1900 N Broad St. Philadelphia 21	Pa
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Malm, Inc., Chas. T.	80 Federal St. Boston 10	Mass
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Menlo Research Laboratory	1627 Bay Rd. East Palo Alto	Cal
Merz and McLellan	Milburn, Esher, Surrey, England	
Miles Electronics Ltd.	Shoreham Arpt. Shoreham, Sussex, Eng	
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	PO Drawer E, Alameda	Cal
Panero Engineers, Guy B.	630 3rd Ave. New York 17	NY
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
PIONEER SERVICE & ENGINEERING CO.		
Adv Pg 102	231 S La Salle St. Chicago 4	Ill
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Racey MacCallum & Assoc. Ltd.	5890 Monkland Ave. Montreal, Can	
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
Robażel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
Robert & Co., Associates	96 Poplar St. NW, Atlanta 3	Ga
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Sanderson & Porter	72 Wall St. New York 5	NY
Schoenfeld, David M.	New Canaan	Conn
Sharpe, Leon M.	61 Broadway, New York 6	NY
Singmaster & Breyer, Inc.	420 Lexington Ave. New York 17	NY
Societe Fives-Fenhoet	340 rue Saint-Honore, Paris 1, France	
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Stanley Engineering Co.	Hershey Blvd. Muscatine	Iowa
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Stone & Webster Engineering Corp.	49 Federal St. Boston 7	Mass
TRG, Inc.	2 Aerial Way, Syosset	NY
Thompson & Co., John I.	1119-22nd St. NW, Washington 7	DC
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
VITRO CORP. OF AMERICA,		
Adv. Pgs. 213, 276H	261 Madison Ave. New York 36	NY

SERV. & CONS'LT: NUCLEAR-MATERIAL ACCOUNTABILITY

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Ledoux & Co.	359 Alfred Ave. Teaneck	NJ
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Nuclear Metals, Inc.	Box 223 Concord	Mass
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
Poetschke & Co. oHG	Box 2766, Frankfurt/Main 1, Germany	
RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St. Louisville 10	Ky
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	

SERV. & CONS'LT: NUCLEAR PHYSICS

Advanced Technology Labs.	369 Whisman Rd. Mountain View	Cal
Aircraft & Missile Consultants	2722 Ardmore Ave., Manhattan Beach	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
ASTRA, INC. Adv Pg 235	**Box 226, Raleigh**	**NC**
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	**5959 S Hoover, L A 44**	**Cal**
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd. Glenview	Ill
Broadview Research Corp.	1811 Trousdale Dr. Burlingame	Cal
Canadian GE Co. Ltd.	107 Park St. Petersborough, Ont Can	
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	**130 Alewife Brook Pkwy Cambridge 40**	**Mass**
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	**Box 748, Fort Worth**	**Tex**
Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
Cook Technological Center Div.	6401 Oakton St. Morton Grove	Ill
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Defense Apparel	115 Allyn St. Hartford	Conn
Dewey Corp., G. C.	202 E 44th St. New York 36	NY
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave. LIC 1	NY
Franklin Institute	Philadelphia 3	Pa
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	**Box 608, San Diego 12**	**Cal**
General Nuclear Engineering Corp.	Box 245, Dunedin	Fla
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS.		
Adv Pg 74	**Box 90515, Intl. Airpt. Sta. LA 45**	**Cal**
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	**7 N Brentwood Blvd. Clayton 5**	**Mo**
KAMAN NUCLEAR, Adv Pg 258	**Box 3217, No. End Sta. Colorado Springs**	**Colo**
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Moore, Richard L.	Box 24021, Los Angeles 24	Cal
Northern Research & Engrg. Corp.	238 Main St. Cambridge	Mass
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	**5 New St. White Plains**	**NY**
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		**Pa**
Nuclear Technology Corp.	Irvington	NY
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	**196 Degraw St. Brooklyn 31**	**NY**
Plessey Nucleonics Ltd.	Weedon Rd. Northampton, England	
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
Rosenberg Associates, Paul	100 Stevens Ave. Mt. Vernon	NY
S. A. L. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SOLID STATE RADIATIONS, INC.		
Adv Pg 44	**9925 W Jefferson Blvd. Culver City**	**Cal**
TRG, Inc.	2 Aerial Way, Syosset	NY
TEXAS NUCLEAR CORP.		
Adv. Pgs. 228, 229	**Box 9267, Allendale Sta. Austin 17**	**Tex**
U. S. NUCLEAR CORP. Adv Pg 262	**801 N Lake St. Box 208, Burbank**	**Cal**
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 138, 139, 140	**Forest Hills**	**Pa**

SERV. & CONS'LT: PERSONNEL, NUCLEAR

Atomic Personnel, Inc.	1518 Walnut St. Phila 2	Pa

SERV. & CONS'LT: PLANT-SITE LOCATION

See SERVICES: SITE LOCATION

SERV. & CONS'LT: RADIOCHEMICAL

ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC RESEARCH LAB. Adv Pg 61	**14725 Arminta Ave. Panorama City**	**Cal**
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
BIOCHEMICAL PROCEDURES NUCLEAR ASSAY DIV.		
Adv Pg 61	**12020 Chandler Blvd. N Hollywood**	**Cal**
Bio-Nuclear Labs. Inc.	1503 Guadalupe St. Austin 1	Tex
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	**130 Alewife Brook Pkwy Cambridge 40**	**Mass**
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	**Box 608, San Diego 12**	**Cal**
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
Ionics Inc.	152 6th St. Cambridge 42	Mass
Isoserve Inc.	131 Portland St. Cambridge 39	Mass
ISOTOPES INC. Adv Pg 116	**123 Woodland Ave. Westwood**	**NJ**
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
JOHNSTON LABS. INC., WILLIAM H.,		
Adv Pg 90	**3617 Woodland Ave. Baltimore 15**	**Md**
Ledoux & Co.	359 Alfred Ave. Teaneck	NJ
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
National Spectrographic Lab. Inc.	6300 Euclid Ave. Cleveland 3	Ohio
New England Nuclear Corp.	575 Albany St. Boston	Mass
NUCLEAR-CHICAGO CORP.		
Adv. Pgs. 80, 81	**345 E Howard Ave. Des Plaines**	**Ill**
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		**Pa**
Nuclear Metals, Inc.	Box 222 Concord	Mass
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	**Box 10901, Pittsburgh 36**	**Pa**
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	**650 11th Ave. New York 36**	**NY**
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
Quantum, Inc.	Lufbery Ave. Wallingford	Conn
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
Radiation Detection Co.	4047-49 Transport St. Palo Alto	Cal
RADIOCHEMISTRY, INC. Adv Pg 72	**1111 W St. Catherine St. Louisville 10**	**Ky**
SHARP LABORATORIES, INC.		
Adv Pg 249	**Box 1302, La Jolla**	**Cal**
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd. Waltham 54**	**Mass**
U. S. NUCLEAR CORP. Adv Pg 262	**801 N Lake St. Box 208, Burbank**	**Cal**
Volk Radiochemical Co.	5412 N Clark St. Chicago 40	Ill
WESTINGHOUSE TESTING REACTOR,		
Adv. Pgs. 138, 139, 141	**Box 1075, Pittsburgh 30**	**Pa**
York Research Corp.	1 Research Dr. Stamford	Conn

SERV. & CONS'LT: RADIOGRAPHY

Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
Bleiwerk Goslar GmbH	Goslar, Germany	
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Canadian GE Co. Ltd.	107 Park St. Petersborough, Ont Can	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
DRESSER PRODUCTS, INC. Adv Pg 92	**Great Barrington**	**Mass**
Ebasco Services Inc.	2 Rector St. New York 6	NY
Gamma Industrie	52 Rue de Dunkerque, Paris 9, France	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Greene Testing Labs. Inc., Arnold	6 Huron Dr. Natick	Mass
Industrial X-Ray & Research, Inc.	880 Second St. Muskegon	Mich
Inspection Services Ltd.	Oldfields Trading Est. Sutton By-pass, Sutton, Surrey, England	
International Shielding Industries	Foot of West St. Wilmington	Del
ISOTOPES INC. Adv Pg 116	**123 Woodland Ave. Westwood**	**NJ**
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
Metal & Pipeline Endurance Ltd.	30 London Rd. Knebworth, Herts, England	
Morfax Ltd.	Willow Ln. Mitcham, Surrey, England	
Mutual Boiler & Machy Insurance Co.	225 Wyman St. Waltham 54	Mass
NATIONAL ANNEALING BOX CO.		
Adv Pg 268	**Washington**	**Pa**
NATIONAL LEAD CO. Adv. Pgs. 134, 135	**111 Broadway, New York 6**	**NY**
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Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
PACIFIC COAST ENGINEERING CO.		
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Pantak Ltd.	Vale Rd. Windsor, Berks, England	
Pantatron Ltd.	5A Princes St. Hanover Sq. London W1, Eng	
Philips Electronic Instruments	750 S Fulton Ave. Mt. Vernon	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	**Eindhoven, The Netherlands**	
PITTSBURGH PIPING & EQUIPMENT CO.		
Adv Pg 246	**158 49th St. Pittsburgh**	**Pa**
Pittsburgh Testing Lab.	1330 Locust St. Pittsburgh 19	Pa
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
Robatel & Mulatier	59 A 69 Rue Barsban, Lyon, France	
St. John X-Ray Laboratory	Califon	NJ
State Testing Lab. Inc.	227 Knowlton St. Bridgeport 8	Conn

WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.
Adv. Pgs. 138, 139, 144 ..... Cheswick ..... Pa

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ASTRA, INC. Adv Pg 225 ..... Box 226, Raleigh ..... NC
Atlantic Research Corp. ..... Alexandria ..... Va
Atomasters-Buntaine Corp. ..... 111 W Jewel Ave. St. Louis 22 ..... Mo
ATOMIC RESEARCH LAB. Adv Pg 61 .... 14725 Arminta Ave. Panorama City ..... Cal
Atomics International Div. NAA ..... Box 309, Canoga Park ..... Cal
Battelle-Institut e. V. ..... Wiesbadener Str. Frankfurt-Main, Ger
BIOCHEMICAL PROCEDURES NUCLEAR ASSAY DIV.
Adv Pg 61 ..... 12020 Chandler Blvd. N Hollywood ..... Cal
Bio-Nuclear Labs. Inc. ..... 1503 Guadalupe St. Austin 1 ..... Tex
Bio-Rad Laboratories ..... 1257 S 32nd St. Richmond ..... Cal
Combustion Engineering, Inc. ..... 200 Madison Ave. New York 16 ..... NY
CONTROLS FOR RADIATION, INC.
Adv Pg 219 ..... 130 Alewife Brook Pkwy Cambridge 40 ... Mass
Cross-Malaker Laboratories ..... 191 Mill Ln. Mountainside ..... NJ
Curtis Nuclear Corp. ..... 1645 W 135th St. Gardena ..... Cal
Ericsson Telephones Ltd. ..... High Church St. New Basford, Nott. Eng
FORRO SCIENTIFIC CO. Adv Pg 236 .... 833 Lincoln St. Evanston Ill
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.
Adv. Pgs. 212, 276M ..... Box 608, San Diego 12 ..... Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OPP.
Adv. Pgs. 95, 97, 99, 101 ..... 1 River Rd. Schenectady 5 ..... NY
Greene Testing Labs, Inc., Arnold ..... 6 Huron Dr. Natick ..... Mass
Hazleton-Nuclear Science Corp. ..... 4062 Fabian Way, Palo Alto ..... Cal
Industrial Hygiene Associates ..... 296 Upland Ave. Newton Highlands 61 ... Mass
Industrial X-Ray & Research, Inc. ..... 880 Second St. Muskegon ..... Mich
Ionics Inc. ..... 152 6th St. Cambridge 42 ..... Mass
Inserve Inc. ..... 131 Portland St. Cambridge 38 ..... Mass
ISOTOPES INC. Adv Pg 116 ..... 123 Woodland Ave. Westwood ..... NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,
Adv Pg 128 ..... 170 W Providencia, Burbank ..... Cal
JOHNSTON LABS. INC., WILLIAM H.,
Adv Pg 90 ..... 3617 Woodland Ave. Baltimore 15 ..... Md
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Marquardt Corp. ..... 16555 Saticoy St. Van Nuys ..... Cal
Nuclear Consultants Corp. ..... 9842 Manchester Rd. St. Louis 19 ..... Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo ..... Pa
Adv Pg 32 ..... 5 New St. White Plains ..... NY
Nuclear Metals, Inc. ..... Box 232 Concord ..... Mass
NUCLEAR SCIENCE & ENGINEERING CORP.
Adv Pg 216 ..... Box 10901, Pittsburgh 36 ..... Pa
NUCLEONIC CORP. OF AMERICA,
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Adv Pg 267 ..... Eindhoven, The Netherlands
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Sharpe, Leon M. ..... 61 Broadway, New York 6 ..... NY
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TRACERLAB INC.
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Western Gear Corp. ..... Box 182 Lynwood ..... Cal
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Atomic Energy of Canada Ltd.
Commercial Products Div. ..... Box 93, Ottawa, Ont Canada
ATOMIC RESEARCH LAB. Adv Pg 61 .... 14725 Arminta Ave. Panorama City ..... Cal
Atomics International Div. NAA ..... Box 309, Canoga Park ..... Cal
Battelle-Institut e. V. ..... Wiesbadener Str. Frankfurt-Main, Ger
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BIOCHEMICAL PROCEDURES NUCLEAR ASSAY DIV.
Adv Pg 61 ..... 12020 Chandler Blvd. N Hollywood ..... Cal
Boos-Allen Applied Research, Inc. ..... 1031 Waukegan Rd. Glenview Ill
Carstom ..... 17 Rd. de la Liberation, St. Denis, Seine Fr
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CONVAIR, DIV. GEN. DYNAMICS CORP.
Adv Pg 104 ..... Box 748, Fort Worth ..... Tex
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Cook Technological Center Div. ..... 6401 Oakton St. Morton Grove Ill
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Moore, Richard L. ..... Box 24021, Los Angeles 24 ..... Cal
New England Nuclear Corp. ..... 575 Albany St. Boston ..... Mass
Northern Research & Engrg. Corp. ..... 238 Main St. Cambridge ..... Mass
Nuclear Consultants Corp. ..... 9842 Manchester Rd. St. Louis 19 ..... Mo
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.
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Radionics Inc. ..... Lafayette & Water Sts. Norristown ..... Pa
S. A. L. P. ..... 38 Rue Gabriel Crie, Malakoff, Seine ... Fr
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State Testing Lab, Inc. ..... 227 Knowlton St. Bridgeport 8 ..... Conn
TECHNICAL ASSOCIATES, Adv Pg 41 ... 140 W Providencia Ave. Burbank ..... Cal
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Adv. Pgs. 49, 130, 276Y ..... 1601 Trapelo Rd. Waltham 54 ..... Mass
20th Century Electronics Ltd. ..... King Henry's Dr. New Addington, Croydon, Surrey, England
U. S. NUCLEAR CORP. Adv Pg 262 ..... 801 N Lake St. Box 208, Burbank ..... Cal
Western Gear Corp. ..... Box 182 Lynwood ..... Cal
Western Radiation Lab. ..... 1107 W 24 St. Los Angeles 7 ..... Cal
York Research Corp. ..... 1 Research Dr. Stamford ..... Conn

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Adv Pg 249 ..... 261 Madison Ave. New York 16 ..... NY
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AEROJET-GENERAL NUCLEONICS,
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ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
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Atlantic Research Corp.	Alexandria	Va
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
BALDWIN-LIMA-HAMILTON CORP.		
Adv Pg 103	Dept N B, Philadelphia 42	Pa
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Blaw-Knox Co.	300 6th Ave. N. B. Pittsburgh 22	Pa
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian GE Co. Ltd.	107 Park St. Petersborough, Ont Can	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Caratom	17 Bd. de la Liberation, St. Denis, Seine	Fr
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Consolidated Western Steel Div. U. S. Steel Corp.	Box 2015, Term Ann, L A 54	Cal
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 110, Princeton	NJ
Dolio & Associates, John	208 S La Salle St. Chicago 4	Ill
Domblatt & Assoc. Inc., B. M.	826 Lafayette St. New Orleans 12	La
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Ferguson Co., H. K.	1783 E 11th St. at Walnut, Cleveland 14	Ohio
Fluor Corp. Ltd.	12000 E Washington Blvd. Whittier	Cal
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave. LIC 1	NY
Franklin Institute	Philadelphia 3	Pa
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
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GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Nuclear Engineering Corp.	Box 245, Dunedin	Fla
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Ionics Inc.	152 6th St. Cambridge 42	Mass
Kaiser Engineers	300 Lakeside Dr. Oakland 12	Cal
LOCKHEED NUCLEAR PRODUCTS,		
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New York Shipbuilding Corp.	Camden 1	NJ
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
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Nuclear Technology Corp.	Irvington	NY
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PACIFIC COAST ENGINEERING CO.		
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Sharpe, Leon M.	61 Broadway, New York 6	NY
Societe Rateau	Rue Rateau La Coumeuve, Seine, France	
TRG, Inc.	2 Aerial Way, Syosset	NY
TOKYO SHIBAURA ELECTRIC CO., LTD.	12 Yuraku-cho 1-Chome, Chiyoda-ku,	
Adv Pg 276D	Tokyo, Japan	
Universal Nuclear Corp.	178-03 Hillside Ave. Jamaica 32	NY
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
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ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Batchelier, Inc., Willis T.	704 3rd Ave. Seattle 4	Wash
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Black & Veatch Consulting Engineers	1500 Meadow Lake Pkwy. Kansas City 14	Mo
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd. Glenview	Ill
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian GE Co. Ltd.	107 Park St. Petersborough, Ont Can	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONVAIR, DIV. GEN. DYNAMICS CORP.		
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Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
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Ebasco Services Inc.	2 Rector St. New York 6	NY
Ewbank & Partners Ltd.	11 Grosvenor Pl. London, SW 1, Eng	
Fluor Corp. Ltd.	12000 E Washington Blvd. Whittier	Cal
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave. LIC 1	NY
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GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Nuclear Engineering Corp.	Box 245, Dunedin	Fla
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Humphreys & Glasgow Ltd.	22 Carlisle Pl. London SW1, England	
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Ionics Inc.	152 6th St. Cambridge 42	Mass
Kaiser Engineers	300 Lakeside Dr. Oakland 12	Cal
Little Inc., Arthur D.	35 Acorn Park, Cambridge 40	Mass
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Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Merz and McLellan	Milburn, Esher, Surrey, England	
Northern Research & Engrg. Corp.	238 Main St. Cambridge	Mass
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
Nuclear Technology Corp.	Irvington	NY
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
PIONEER SERVICE & ENGINEERING CO.		
Adv Pg 102	231 S La Salle St. Chicago 4	Ill
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Stanley Engineering Co.	Hershey Blvd. Muscatine	Iowa
Stone & Webster Engineering Corp.	49 Federal St. Boston 7	Mass
TOKYO SHIBAURA ELECTRIC CO., LTD.	12 Yuraku-cho 1-Chome, Chiyoda-ku,	
Adv Pg 276D	Tokyo, Japan	
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Adv. Pgs. 138, 139, 140	Forest Hills	Pa

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Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
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Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
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Broadview Research Corp.	1811 Trousdale Dr. Burlingame	Cal
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian GE Co. Ltd.	107 Park St. Petersborough, Ont Can	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Commonwealth Associates, Inc.	209 E Washington Ave. Jackson	Mich
CONTROLS FOR RADIATION, INC.		
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Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
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Adv Pg 211	Box 110, Princeton	NJ
Ebasco Services Inc.	2 Rector St. New York 6	NY
Ewbank & Partners Ltd.	11 Grosvenor Pl. London, SW 1, Eng	
Fluor Corp. Ltd.	12000 E Washington Blvd. Whittier	Cal
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave. LIC 1	NY
Franklin Institute	Philadelphia 3	Pa
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M.	Box 608, San Diego 12	Cal
General Nuclear Engineering Corp.	Box 245, Dunedin	Fla
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Holmes & Narver, Inc.	828 S Figueroa LA 17	Cal
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS.		
Adv Pg 74	Box 90515, Intl. Airpt. Sta. LA 45	Cal
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo

Ionics Inc.	152 6th St, Cambridge 42	Mass
Isoserve Inc.	131 Portland St, Cambridge 39	Mass
Kaiser Engineers	300 Lakeside Dr, Oakland 12	Cal
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
MARTIN CO. NUCLEAR DIV. Adv Pg 5	Mail G-3037 Baltimore 3	Md
Merz and McLellan	Milburn, Esher, Surrey, England	
Moore, Richard L.	Box 24021, Los Angeles 24	Cal
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
Nuclear Technology Corp.	Irvington	NY
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
PIONEER SERVICE & ENGINEERING CO.		
Adv Pg 102	231 S La Salle St. Chicago 4	Ill
Quantum, Inc.	Lufbery Ave, Wallingford	Conn
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
Sargent & Lundy	140 S Dearborn St. Chicago 3	Ill
Sharpe, Leon M.	61 Broadway, New York 6	NY
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Stone & Webster Engineering Corp.	49 Federal St, Boston 7	Mass
TRG, Inc.	2 Aerial Way, Syosset	NY
TOKYO SHIBAURA ELECTRIC CO., LTD.	12 Yuraku-cho 1-Chome, Chiyoda-ku,	
Adv Pg 276D	Tokyo, Japan	
VITRO CORP. OF AMERICA,		
Adv. Pgs. 213, 276H	261 Madison Ave. New York 36	NY
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 138, 139, 140	Forest Hills	Pa

SERV. & CONS'LT: SAMPLING, AIR & WATER

ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Associated Nucleonics Inc.	975 Stewart Ave, Garden City	NY
Atlantic Research Corp.	Alexandria	Va
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminta Ave. Panorama City	Cal
Battelle-Institut e. V.	Wiesbadener Str, Frankfurt-Main, Ger	
BIOCHEMICAL PROCEDURES NUCLEAR ASSAY DIV.		
Adv Pg 61	12020 Chandler Blvd. N Hollywood	Cal
Bio-Nuclear Labs. Inc.	1503 Guadalupe St, Austin 1	Tex
Broadview Research Corp.	1811 Trousdale Dr, Burlingame	Cal
Combustion Engineering, Inc.	200 Madison Ave, New York 16	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Devco Engineering Inc. Control Systems		
Div.	Pier Lane W, Caldwell	NJ
Dornblatt & Assoc. Inc., B. M.	826 Lafayette St. New Orleans 12	La
Fleming Radio (Developments) Ltd.	Caxton Way, Stevenage, Herts, England	
Franklin Systems, Inc.	2734 Hillsboro Rd, W Palm Beach	Fla
Gelman Instrument Co.	106 N Main St. Chelsea	Mich
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave, Cicero 50	Ill
Industrial Hygiene Associates	295 Upland Ave. Newton Highlands 61	Mass
Ionics Inc.	152 6th St, Cambridge 42	Mass
Isoserve Inc.	131 Portland St, Cambridge 39	Mass
ISOTOPES INC. Adv Pg 114	123 Woodland Ave. Westwood	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Mast Development Co, Inc.	2212 E 12th St, Davenport	Iowa
NALCO CHEMICAL CO. Adv Pg 53	6318 W 66th Pl. Chicago 38	Ill
National Spectrographic Lab. Inc.	6300 Euclid Ave. Cleveland 3	Ohio
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV.		
Adv Pg 116	2 Richwood Pl. Denville	NJ
Nuclear Engineering Co, Inc.	65 Ray St. Box 218, Pleasanton	Cal
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
NUCLEAR MEASUREMENTS CORP.		
Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Dogpaw St. Brooklyn 31	NY
Occupational Hygiene Services	234 Calvary St, Waltham 54	Mass
Quantum, Inc.	Lufbery Ave, Wallingford	Conn
Radiation Detection Co.	4047-49 Transport St, Palo Alto	Cal
RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St. Louisville 10	Ky
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Schmidt Instrument Co.	Box 111, San Carlos	Cal
SHARP LABORATORIES, INC.		
Adv Pg 248	Box 1302, La Jolla	Cal
Sharpe, Leon M.	61 Broadway, New York 6	NY
Staplex Co. Air Sampler Div.	783 5th Ave. Brooklyn 32	NY
State Testing Lab. Inc.	227 Knowlton St. Bridgeport 8	Conn
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. NUCLEAR CORP. Adv Pg 262	801 H Lake St. Box 308, Burbank	Cal
U. S. Testing Co. Inc.	1415 Park Ave, Hoboken	NJ
York Research Corp.	1 Research Dr, Stamford	Conn

SERV. & CONS'LT: SHIELDING DESIGN

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Ace Engineering & Machine Co. Inc.	Tomlinson Rd, Huntington Valley	Pa
Admiral Corp.	3800 W Cortland St, Chicago 47	Ill
Advanced Technology Labs.	369 Whisman Rd, Mountain View	Cal
Air-Shields, Inc.	Hatboro	Pa
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Allied Engineering & Production Corp.	2421 Blanding Ave, Alameda	Cal
ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Associated Nucleonics Inc.	975 Stewart Ave, Garden City	NY
ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atlantic Research Corp.	Alexandria	Va
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
Atomic Energy of Canada Ltd,		
Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Barnes & Reinecke, Inc.	230 E Ohio St, Chicago 11	Ill
BAR-RAY PRODUCTS, INC. Adv Pg 242	209 25th St. Brooklyn 32	NY
Batcheller, Inc., Willis T.	704 3rd Ave, Seattle 4	Wash
Battelle-Institut e. V.	Wiesbadener Str, Frankfurt-Main, Ger	
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Blaw-Knox Co.	300 6th Ave. N. B. Pittsburgh 22	Pa
Bleiwerk Goslar GmbH	Goslar, Germany	
Bohna & Co. Inc., B. D.	515 Market St. San Francisco 5	Cal
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd, Glenview	Ill
BROOKS & PERKINS, INC. Adv Pg 48	1926 W Fort St. Detroit 16	Mich
Brown Ind. Ltd., David	Hampson St, Manchester, England	
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian GE Co. Ltd.	107 Park St, Peterborough, Ont Can	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Carstom	17 Bd. de la Liberation, St. Denis, Seine	Fr
Catalytic Construction Co.	1528 Walnut St. Philadelphia 2	Pa
CHANCE-PILKINGTON OPTICAL WORKS,		
Adv Pg 241	St. Asaph, Flintshire, Great Britain	
Combustion Engineering, Inc.	200 Madison Ave, New York 16	NY
Commonwealth Associates, Inc.	209 E Washington Ave, Jackson	Mich
Consolidated Western Steel Div. U. S.		
Steel Corp.	Box 2015, Term Ann, L A 54	Cal
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Cook Technological Center Div.	6401 Oakton St, Morton Grove	Ill
Corning Glass Works	Corning	NY
Cross-Malaker Laboratories	191 Mill Ln, Mountainside	NJ
Dewey Corp., G. C.	202 E 44th St, New York 36	NY
Dilworth, Secord, Meagher & Assoc Ltd	4214 Dundas St, W Toronto, Ont Canada	
Dolio & Associates, John	208 S La Salle St. Chicago 4	Ill
Dornblatt & Assoc. Inc., B. M.	826 Lafayette St. New Orleans 12	La
Ebasco Services Inc.	2 Rector St, New York 6	NY
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Ferguson Co., H. K.	1783 E 11th St, at Walnut, Cleveland 14	Ohio
Fluor Corp. Ltd.	12000 E Washington Blvd, Whittier	Cal
Ford Instrument Co Div Sperry Rand Corp.	31-10 Thomson Ave, LIC 1	NY
Frank & Schulte Handelsges. m.b.H.	152 Alfredstr, Essen, Germany	
Franklin Institute	Philadelphia 3	Pa
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
General Nuclear Engineering Corp.	Box 245, Dunedin	Fla
Giffels & Rossetti, Inc.	1000 Marquette Bldg, Detroit 26	Mich
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln, Langley, Nr. Slough, Bucks	Eng
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
International Shielding Industries	Foot of West St, Wilmington	Del
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd, London, SW1, England	

ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Kaiser Engineers	300 Lakeside Dr, Oakland 12	Cal
Kinney, Inc., A. M.	2912 Vernon Pl, Cincinnati 19	Ohio
Knapp Mills Inc.	23-15 Borden Ave, LIC	NY
L. & F. MACHINE CO. Adv Pg 238	2110 Belgrove Ave, Huntington Park	Cal
Lasker Boiler & Engineering Corp.	3201 S Wolcott Ave, Chicago 8	Ill
Lignostone Import Co.	Box 65, Gracie Sta, NY 28	NY
LINCOLN FOUNDRY CORP. Adv Pg 238	2525 E 49 St, Los Angeles	Cal
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Main, Inc., Chas. T.	80 Federal St, Boston 10	Mass
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
Merz and McLellan	Milburn, Esher, Surrey, England	
Moore, Richard L.	Box 24021, Los Angeles 24	Cal
Mosler Safe Co.	Grand Blvd, Hamilton	Ohio
NATIONAL LEAD CO. Adv. Pgs. 134,135	111 Broadway, New York 6	NY
New York Shipbuilding Corp.	Camden 1	NJ
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St, White Plains	NY
Nuclear Engineering Ltd.	Langley Nr. Slough, Bucks, England	
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave, New York 36	NY
NUCLEAR SHIELDING SUPPLIES & SERVICE INC.		
Adv Pg 256	175 Main St, White Plains	NY
Nuclear Technology Corp.	Irvington	NY
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	PO Drawer E, Alameda	Cal
Pantatron Ltd.	5A Princes St, Hanover Sq, London W1, Eng	
PERMALI, INC. Adv Pg 59	Box 718, Mt. Pleasant	Pa
Pickard-Warren-Lowe Assoc.	1025 Conn Ave, NW, Wash 6	DC
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs, Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
PIONEER SERVICE & ENGINEERING CO.		
Adv Pg 102	231 S La Salle St, Chicago 4	Ill
Radiation Engineering, Inc.	4924 Poppleton Ave, Omaha	Neb
Radionics Inc.	Lafayette & Water Sts, Norristown	Pa
RELIANCE INCORPORATED, Adv Pg 261	1210-1212 Adams Ave, Phila 24	Pa
Rimak Electronics Inc.	10929 Vanowen St, No, Hollywood	Cal
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St, Milwaukee 1	Wis
Stanley Engineering Co.	Hershey Blvd, Muscatine	Iowa
Stanray Corp.	200 S Michigan Ave, Chicago 4	Ill
Stone & Webster Engineering Corp.	49 Federal St, Boston 7	Mass
Sumner Sollitt Co.	307 N Michigan Ave, Chicago 1	Ill
TRG, Inc.	2 Aerial Way, Syosset	NY
TECHNICAL ASSOCIATES, Adv Pg 41	149 W Providencia Ave, Burbank	Cal
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 138, 139, 140	Forest Hills	Pa
York Research Corp.	1 Research Dr, Stamford	Conn

SERV. & CONS'LT: SITE LOCATION, NUCLEAR FACILITY

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave, New York 16	NY
Associated Nucleonics Inc.	975 Stewart Ave, Garden City	NY
ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Austin Co.	16112 Euclid Ave, Cleveland 12	Ohio
Batcheller, Inc., Willis T.	704 3rd Ave, Seattle 4	Wash
Battelle-Institut e. V.	Wiesbadener Str, Frankfurt-Main, Ger	
Bechtel Corp.	220 Bush St, San Francisco 4	Cal
Beckman & Whitley, Inc.	993 E San Carlos Ave, San Carlos	Cal
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Black & Veatch Consulting Engineers	1500 Meadow Lake Pkwy, Kansas City 14	Mo
Bohna & Co. Inc., B. D.	515 Market St, San Francisco 5	Cal
Boos-Allen Applied Research, Inc.	1031 Waukegan Rd, Glenview	Ill
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian GE Co, Ltd.	107 Park St, Peterborough, Ont Can	
Catalytic Construction Co.	1528 Walnut St, Philadelphia 2	Pa
Combustion Engineering, Inc.	200 Madison Ave, New York 16	NY
Commonwealth Associates, Inc.	209 E Washington Ave, Jackson	Mich
Consolidated Western Steel Div, U. S. Steel Corp.	Box 2015, Term Ann, L A 54	Cal
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	138 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cross-Malaker Laboratories	191 Mill Ln, Mountainside	NJ
Dollo & Associates, John	208 S La Salle St, Chicago 4	Ill
Domblatt & Assoc. Inc., B. M.	826 Lafayette St, New Orleans 12	La
Ebasco Services Inc.	2 Rector St, New York 6	NY
Ewbank & Partners Ltd.	11 Grosvenor Pl, London, SW 1, Eng	
Fluor Corp. Ltd.	12000 E Washington Blvd, Whittier	Cal
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Gilbert Associates, Inc.	525 Lancaster Ave, Reading	Pa
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Holmes & Narver, Inc.	828 S Figueroa LA 17	Cal
HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODS.		
Adv Pg 74	Box 90515, Intl. Airpt. Sta. LA 45	Cal
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd, Clayton 5	Mo
Kaiser Engineers	300 Lakeside Dr, Oakland 12	Cal
Kinney, Inc., A. M.	2912 Vernon Pl, Cincinnati 19	Ohio
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Main, Inc., Chas. T.	80 Federal St, Boston 10	Mass
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
MASSACHUSETTS COMMISSION ON ATOMIC ENERGY,		
Adv Pg 100	150 Causeway St, Boston	Mass
Menlo Research Laboratory	1627 Bay Rd, East Palo Alto	Cal
Merz and McLellan	Milburn, Esher, Surrey, England	
Middle West Service Co.	20 N Wacker Dr, Chicago	Ill
Northern Research & Engng. Corp.	238 Main St, Cambridge	Mass
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St, White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
Nuclear Technology Corp.	Irvington	NY
Pickard-Warren-Lowe Assoc.	1025 Conn Ave, NW, Wash 6	Conn
PIONEER SERVICE & ENGINEERING CO.		
Adv Pg 102	231 S La Salle St, Chicago 4	Ill
Quantum, Inc	Lufbery Ave, Wallingford	Conn
RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St, Louisville 10	Ky
Robert & Co., Associates	96 Poplar St, NW, Atlanta 3	Ga
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Sargent & Lundy	140 S Dearborn St, Chicago 3	Ill
Sharpe, Leon M.	61 Broadway, New York 6	NY
Singmaster & Breyer, Inc.	420 Lexington Ave, New York 17	NY
Stanley Engineering Co.	Hershey Blvd, Muscatine	Iowa
Stone & Webster Engineering Corp.	49 Federal St, Boston 7	Mass
Sumner Sollitt Co.	307 N Michigan Ave, Chicago 1	Ill
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-Cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
VITRO CORP. OF AMERICA,		
Adv. Pgs. 213, 276H	261 Madison Ave, New York 36	NY
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 138, 139, 140	Forest Hills	Pa

SERV. & CONS'LT: SPECTROGRAPHIC ANALYSIS

Alloys Unlimited, Inc.	21-01 43rd Ave, LIC 1	NY
Alpha Metals, Inc.	60R Water St, Jersey City 4	NJ
American Cast Iron Pipe Co.	Box 2603, Birmingham 2	Ala
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
Battelle-Institut e. V.	Wiesbadener Str, Frankfurt-Main, Ger	
Boos-Allen Applied Research, Inc.	1031 Waukegan Rd, Glenview	Ill
Bruel & Kjaer	Linde Alle 23, Naerum, Den	
Combustion Engineering, Inc.	200 Madison Ave, New York 16	NY
Cooper Alloy Corp.	Bloy St.-Ramsey Av, Hillside	NJ
Electric Boat Div, Gen. Dynamics Corp.	Groton	Conn
Fulmer Research Institute	Stoke Poges, Bucks, England	
Greene Testing Labs, Inc., Arnold	6 Huron Dr, Natick	Mass
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St, Cleveland 6	Ohio
Ingersoll Steel Div, Borg-Warner Corp	New Castle	Ind
Ionics Inc.	152 6th St, Cambridge 42	Mass
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Jarrell-Ash Co.	26 Farwell St, Newtonville 60	Mass
Ledoux & Co.	359 Alfred Ave, Teaneck	NJ
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
Minerals Refining Co.	Box 367, Murray	Utah
National Spectrographic Lab. Inc.	6300 Euclid Ave, Cleveland 3	Ohio
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Olin Mathieson Chemical Corp, Nuclear Fuels Oper.	275 Winchester Ave, New Haven	Conn
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Philips Electronic Instruments	750 S Fulton Ave, Mt. Vernon	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Pittsburgh Testing Lab.	1330 Locust St, Pittsburgh 19	Pa
Plasmadyne Corp.	3839 S Main St, Santa Ana	Cal
Prazisionsmessgeraete RSV	13b Hechendorf/Pilsensee, Germany	
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal

State Testing Lab, Inc.	227 Knowlton St. Bridgeport 8	Conn
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 898, Attleboro	Mass
Western Gear Corp.	Box 182 Lynwood	Cal

SERV. & CONS'LT: TECHNICAL WRITING

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Aircraft & Missile Consultants	2722 Ardmore Ave. Manhattan Beach	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Allstates Design & Devel. Co. Inc.	25 N Warren St. Trenton	NJ
Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
Atlantic Research Corp.	Alexandria	Va
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Barnes & Reinecke, Inc.	230 E Ohio St. Chicago 11	Ill
Belock Instrument Corp.	112-03 14th Ave. College Point 56	NY
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
Bjorksten Research Labs. Inc.	Box 265, Madison 1	Wis
Blaw-Knox Co.	300 6th Ave. N. B. Pittsburgh 22	Pa
Bohna & Co. Inc., B. D.	515 Market St. San Francisco 5	Cal
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd. Glenview	Ill
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian Applied Research Ltd.	750 Lawrence Ave. W, Toronto 19, Ont	Can
Catalytic Construction Co.	1528 Walnut St. Philadelphia 2	Pa
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Commonwealth Associates, Inc.	209 E Washington Ave. Jackson	Mich
Computer Systems Inc.	Culver Rd. Monmouth Junction	NJ
Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
Cook Technological Center Div.	6401 Oakton St. Morton Grove	Ill
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
Cummins & Barnard, Inc.	2058 S State, Ann Arbor	Mich
Design Service Co. Inc.	76 9th Ave. New York 11	NY
Ebasco Services Inc.	2 Rector St. New York 6	NY
Efficient Engineering Co. Inc.	21680 Coolidge Hwy. Detroit 37	Mich
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
General Nuclear Engineering Corp.	Box 245, Dunedin	Fla
Gilbert Associates, Inc.	525 Lancaster Ave. Reading	Pa
HRB-Singer, Inc.	Circleville Rd, State College	Pa
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Jackson & Moreland, Inc.	600 Park Square Bldg. Boston 16	Mass
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
Ledoux & Co.	359 Alfred Ave. Teaneck	NJ
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Lytle Corp.	1404 San Mateo SE Albuquerque	NM
McGRAW HILL BOOK CO.		
Adv. Pgs. 230, 269	330 W 42 St. New York 36	NY
Menlo Research Laboratory	1627 Bay Rd. East Palo Alto	Cal
Miles Electronics Ltd.	Shoreham Arpt. Shoreham, Sussex,	Eng
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Murdock Assoc., James F.	1482 New York Ave. Bklyn 10	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Potter Aeronautical Corp.	Route #22, Union	NJ
RCA SERVICE CO. NUCLEAR & SCIENTIFIC SERVICES,		
Adv Pg 49	Cherry Hill, Delaware Tp. Camden 8	NJ
Racey MacCallum & Assoc. Ltd.	5890 Monkland Ave, Montreal, Can	
Rimak Electronics Inc.	10929 Vanowen St, No. Hollywood	Cal
Sharpe, Leon M.	61 Broadway, New York 6	NY
Simmonds Precision Products, Inc.	105 White Plains Rd. Tarrytown	NY
Thompson & Co., John L.	1118-22nd St, NW, Washington 7	DC
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
York Research Corp.	1 Research Dr. Stamford	Conn

SERV. & CONS'LT: TESTING, ENVIRONMENTAL

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	261 Madison Ave. New York 16	NY
Abrams Instrument Corp.	600 E Shiawassee St. Lansing	Mich
Admiral Corp.	3800 W Cortland St. Chicago 47	Ill
Aero Supply Mfg. Co. Inc.	Corry	Pa
AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
Aircraft Equip. Testing Co., Inc.	1808 Fleet St. Baltimore 31	Md
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
Allison Div. Gen. Motors Corp.	Box 894, Indianapolis	Ind
American Electronic Labs. Inc.	121 N 7th St, Philadelphia 6	Pa
American Instrument Co, Inc.	8030 Georgia Ave, Silver Spring	Md
Andel & Co. Inc.	5918 N Kedzie Ave. Chicago 25	Ill
ASSOCIATED TESTING LABS. INC.		
Adv Pg 269	134 Rte. 46, Wayne	NJ
ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminto Ave. Panorama City	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Avco Research & Adv. Devel. Div.	201 Lowell St. Wilmington	Mass
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
Battelle-Institut e. V.	Wiesbadener Str, Frankfurt-Main,	Ger
Belock Instrument Corp.	112-03 14th Ave. College Point 56	NY
BIOCHEMICAL PROCEDURES NUCLEAR ASSAY DIV.		
Adv Pg 61	12020 Chandler Blvd. N Hollywood	Cal
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd, Santa Ana	Cal
Bulova Research & Development Labs Inc	62-10 Woodside Ave. Woodside 77	NY
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian Applied Research Ltd.	750 Lawrence Ave. W, Toronto 19, Ont	Can
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Chance Vought Electronics Div.	Box 5907, Dallas 22	Tex
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cook Technological Center Div.	6401 Oakton St. Morton Grove	Ill
Copes-Vulcan Div. Blaw-Knox Co.	939 W 26 St. Erie 4	Pa
Curtiss-Wright Corp. Electronics Div.	35 Market St. East Paterson	NJ
Dale Products, Inc.	Box 488, Columbus	Neb
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
Domblatt & Assoc. Inc., B. M.	826 Lafayette St. New Orleans 12	La
Electro-Nucleonics Inc.	Box 707, Caldwell	NJ
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Greene Testing Labs. Inc., Arnold	6 Huron Dr. Natick	Mass
Hermetic Seal Transformer Co. Div. Dresser Industries, Inc.	555 N 5th St, Garland	Tex
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Ionics Inc.	152 6th St. Cambridge 42	Mass
ISOTOPES INC. Adv Pg 116	123 Woodland Ave. Westwood	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
LEACH CORP. Adv Pg 253	18435 Susana Rd. Compton	Cal
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey,	Eng
National Spectrographic Lab. Inc.	6300 Euclid Ave. Cleveland 3	Ohio
Nuclear Consultants Corp.	9842 Manchester Rd, St. Louis 19	Mo
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Ortho Filter Corp.	7 Paterson St. Paterson 1	NJ
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Planer Ltd., G. V.	Windmill Rd. Sunbury-on-Thames, Middx.	Eng
Radiation Detection Co.	4047-49 Transport St. Palo Alto	Cal
RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St. Louisville 10	Ky
Rotherm Engineering Co. Inc.	7280 W Devon Ave. Chicago	Ill
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
St. John X-Ray Laboratory	Califon	NJ
Schaevitz Engineering	Rt 130 & Schaevitz Blvd. Pennsauken	NJ
State Testing Lab. Inc.	227 Knowlton St. Bridgeport 8	Conn
Technology Instrument Corp.	531 Main St. Acton	Mass
Thermal Dynamics Corp.	Lebanon	NH
Thompson & Co., John L.	1118-22nd St. NW, Washington 7	DC
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 298, Burbank	Cal
U. S. Testing Co. Inc.	1415 Park Ave. Hoboken	NJ
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St, Cambridge,	Eng
Waters Manufacturing, Inc.	Boston Post Rd. Wayland	Mass
Webber Mfg. Co. Inc.	Box 217, Indianapolis 6	Ind
WESTINGHOUSE TESTING REACTOR,		
Adv. Pgs. 138, 139, 141	Box 1075, Pittsburgh 30	Pa
York Research Corp.	1 Research Dr. Stamford	Conn

SERV. & CONS'LT: TESTING, NONDESTRUCTIVE
See Also INSPECTION EQUIPMENT
RADIOGRAPHIC EQUIPMENT

Aero Supply Mfg. Co. Inc.	Corry	Pa
AEROJET-GENERAL NUCLEONICS,		
Adv Pg 119	Box 77, San Ramon	Cal
Aircraft Equip. Testing Co., Inc.	1808 Fleet St. Baltimore 31	Md
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis

American Cast Iron Pipe Co.	Box 2603, Birmingham 2	Ala
American Electronics Inc. Nuclear Div.	9459 W Jefferson Blvd, Culver City	Cal
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Arenberg Ultrasonic Lab. Inc.	94 Green St. Jamaica Plain 30	Mass
ASSOCIATED TESTING LABS. INC.		
Adv Pg 268	134 Rte. 46, Wayne	NJ
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Barnes & Reinecke, Inc.	230 E Ohio St. Chicago 11	Ill
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
Bio-Nuclear Labs. Inc.	1503 Guadalupe St. Austin 1	Tex
Bleiwerk Goslar GmbH.	Goslar, Germany	
Bonney-Floyd Co.	611 Marion Rd. Columbus 7	Ohio
Borg-Warner Controls Div. Borg-Warner Corp.	3300 Newport Blvd, Santa Ana	Cal
BRANSON INSTRUMENTS, INC.		
Adv Pg 235	37 Brown House Rd. Stamford	Conn
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cook Technological Center Div.	6401 Oakton St. Morton Grove	Ill
Cooper Alloy Corp.	Bloy St.-Ramsey Av. Hillside	NJ
Copes-Vulcan Div. Blaw-Knox Co.	939 W 26 St. Erie 4	Pa
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 211, Princeton	NJ
Damascus Tube Co.	Box 71, Greenville	Pa
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
Djordjevic Engineering Co.	1933 N Damen, Chicago 47	Ill
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Ebasco Services Inc.	2 Rector St. New York 6	NY
Falk & Co. Ltd., M.	Emefco House, Reigate, Surrey, Eng	
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Gamma Industrie	52 Rue de Dunkerque, Paris 9, France	
Garde Mfg. Co.	53 John St. Cumberland	RI
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO.		
Adv Pg 106	4809 Tod Ave. East Chicago	Ind
Greene Testing Labs. Inc., Arnold	6 Huron Dr. Natick	Mass
HARVEY ALUMINUM, Adv Pg 93	19200 S Western Ave. Torrance	Cal
Hull Associates	30 W Monroe St. Chicago 3	Ill
Industrial X-Ray & Research, Inc.	880 Second St. Muskegon	Mich
Inspection Services Ltd.	Oldfields Trading Est, Sutton By-pass, Sutton, Surrey, England	
International Shielding Industries	Foot of West St. Wilmington	Del
Ionics Inc.	152 6th St. Cambridge 42	Mass
ISOTOPES INC. Adv Pg 116	123 Woodland Ave. Westwood	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Jarrell-Ash Co.	26 Farwell St. Newtonville 60	Mass
Kaiser Fleetwings, Inc.	Bristol	Pa
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
Maritime Chemical & Repair Corp.	423 Hamilton Ave. Brooklyn 32	NY
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Material-Prufstelle	Robert-Koch-Str. 26, Koln-Lindenthal	Ger
Metal & Pipeline Endurance Ltd.	30 London Rd. Knebworth, Herts, England	
Motherwell Bridge & Engrg. Co. Ltd.	Box 4, Motherwell, Scotland	
Mutual Boiler & Machy Insurance Co.	225 Wyman St. Waltham 54	Mass
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
NATIONAL ANNEALING BOX CO.		
Adv Pg 268	Washington	Pa
North British Steel Foundry Ltd.	Bathgate, W Lothian, Scotland	
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
Nuclear Research Corp.	Southampton	Pa
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave. New Haven	Conn
Oregon Metallurgical Corp.	Box 484, Albany	Ore
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Ortho Filter Corp.	7 Paterson St. Paterson 1	NJ
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	PO Drawer E, Alameda	Cal
Pantak Ltd.	Vale Rd. Windsor, Berks, England	
Pantatron Ltd.	5A Princes St. Hanover Sq. London W1, Eng	
PHOENIX-RHEINROHR AG, Adv Pg 276K	August-Thyssen-Str. 1, Duesseldorf, Ger	
PITTSBURGH PIPING & EQUIPMENT CO.		
Adv Pg 246	158 49th St. Pittsburgh	Pa
Pittsburgh Testing Lab.	1330 Locust St. Pittsburgh 19	Pa
Planer Ltd., G.V.	Windmill Rd. Sunbury-on-Thames, Middx. Eng	
Powertron Ultrasonics Corp.	E Gate Blvd, Garden City	NY
Pye, Ltd.	St. Andrews Rd. Cambridge, England	
Racey MacCallum & Assoc. Ltd.	5890 Monkland Ave. Montreal, Can	
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
Rotherm Engineering Co. Inc.	7280 W Devon Ave. Chicago	Ill
Rousseau Controls Ltd.	640 Decourcelle St. Montreal, Que. Can.	
S. A. I. P.	38 Rue Gabriel Cria, Malakoff, Seine	Fr
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
St. John X-Ray Laboratory	Califon	NJ
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St. Milwaukee 1	Wis
Solartron Electronic Group Ltd.	Victoria Rd. Farnborough, Hants, Eng	
Sperry Products Co.	Shelter Rock Rd. Danbury	Conn
State Testing Lab. Inc.	227 Knowlton St. Bridgeport 8	Conn
Stearns-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Taylor Engineering Corp.	6500 Epworth Blvd, Detroit 10	Mich
Teleweld Inc.	11635 Franklin St. Franklin Park	Ill
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary),		
Adv Pg 2	Box 878, Attleboro	Mass
Texas Research Foundation	Renner	Tex
Thompson & Co., John L.	1118-22nd St. NW, Washington 7	DC
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
Union Steel Corp.	1550 Ashwood Terr. Union	NJ
Unit Process Assemblies	53-15 37th Ave. Woodside 77	NY
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
U. S. Testing Co. Inc.	1415 Park Ave. Hoboken	NJ
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St. Cambridge, Eng	
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT.		
Adv. Pgs. 138, 139, 144	Cheswick	Pa
WESTINGHOUSE TESTING REACTOR,		
Adv. Pgs. 138, 139, 141	Box 1075, Pittsburgh 30	Pa
York Research Corp.	1 Research Dr. Stamford	Conn

SERV. & CONS'LT: TESTING, POSTIRRADIATION

Admiral Corp.	3800 W Cortland St. Chicago 47	Ill
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
ATOMATION, INC. DIV. C. W. REED CO. INC.		
Adv Pg 233	5959 S Hoover, L A 44	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Battelle-Institut e. V.	Wiesbadener Str. Frankfurt-Main, Ger	
Bio-Nuclear Labs. Inc.	1503 Guadalupe St. Austin 1	Tex
CONTROLS FOR RADIATION, INC.		
Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP.		
Adv Pg 104	Box 748, Fort Worth	Tex
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Cook Technological Center Div.	6401 Oakton St. Morton Grove	Ill
Garde Mfg. Co.	53 John St. Cumberland	RI
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP.		
Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OPP.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Ionics Inc.	152 6th St. Cambridge 42	Mass
ISOTOPES INC. Adv Pg 116	123 Woodland Ave. Westwood	NJ
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
NUCLEAR SCIENCE & ENGINEERING CORP.		
Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEAR SERVICE CONSULTANTS, INC.		
Adv Pg 133	650 11th Ave. New York 36	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
WESTINGHOUSE TESTING REACTOR,		
Adv. Pgs. 138, 139, 141	Box 1075, Pittsburgh 30	Pa

SERV. & CONS'LT: THORIUM CONVERSION

FORMS PRODUCED:

1. *METAL INGOTS*
2. *METAL PLATES*
3. *METAL RODS*
4. *OXIDE PELLETS*

5. OXIDE POWDER
6. ALLOYS

AEROJET-GENERAL NUCLEONICS, 4, Adv Pg 119	Box 77, San Ramon	Cal
American Potash & Chem. Corp. 5	99 Park Ave, New York 16	NY
Birkett, Billington & Newton Ltd., T. M. 1-2-3-6	Etruria Rd. Hanley, Stoke-on-Trent, Staffs, England	
Canadian GE Co. Ltd. 4	107 Park St. Petersborough, Ont Can	
GRACE & CO. W. R., DAVISON CHEMICAL DIV. 1-2-3-4-5-6, Adv Pg 51	Erwin	Tenn
Ionics Inc. 5	152 6th St, Cambridge 42	Mass
MALLINCKRODT NUCLEAR CORP. 4, Adv Pg 29	2nd & Mallinckrodt Sts. St. Louis 7	Mo
Minnesota Mining & Mfg. Co. 4	900 Bush Ave, St. Paul 6	Minn
National Beryllia Corp. 4	4501 Dell Ave, North Bergen	NJ
NATIONAL LEAD CO. 1-2-3-4-5, Adv. Pgs. 134,135	111 Broadway, New York 6	NY
Norton Co. 5	1 New Bond St. Worcester 6	Mass
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC) 4-5, Adv Pg 15 Apollo		Pa
Nuclear Metals, Inc. 3-6	Box 222 Concord	Mass
Nukem, GmbH, 1-2-4-5	Wolfgang bei Hanau/Main, Germany	
Olin Mathieson Chemical Corp. Nuclear Fuels Oper. 6	275 Winchester Ave. New Haven	Conn
RIO TINTO MINING CO. OF CANADA LTD. 5, Adv Pg 108	335 Bay St. Toronto, Ont Canada	
Semi-Alloys Inc. 6	550 S Fulton Ave. Mt. Vernon	NY
SHOWA DENKO K. K. 1-2-3-4-5-6, Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
SPENCER CHEMICAL CO. 5, Adv Pg 88	500 Dwight Bldg. Kansas City 5	Mo
Sylvania-Corning Nuclear Corp. 1-2-3-6	208-20 Willets Point Blvd, Bayside	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), 1-2-3-6, Adv Pg 2	Box 898, Attleboro	Mass
Thermal Refractories Corp. 4-5	4501 Dell Ave, North Bergen	NJ
TOKYO SHIBAURA ELECTRIC CO., LTD. 4, Adv Pg 276D	12 Yurakucho, 1-Chome, Chiyoda-ku, Tokyo, Japan	
VAR-LAC-OID CHEMICAL CO. 5, Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. 6, Adv Pg 254	342 Madison Ave. New York 17	NY

SERV. & CONS'LT: TRAFFIC & TRANSPORTATION

Bleiwerk Goslar GmbH	Goslar, Germany	
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd. Glenview	Ill
Brown Ind. Ltd., David	Hampson St, Manchester, England	
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
International Shielding Industries	Foot of West St, Wilmington	Del
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
Pickard-Warren-Lowe Assoc.	1025 Conn Ave, NW, Wash 6	DC
Stanray Corp.	200 S Michigan Ave. Chicago 4	Ill

SERV. & CONS'LT: TRAINING, NUCLEAR

ASTRA, INC. Adv Pg 235	Box 226, Raleigh	NC
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminta Ave. Panorama City	Cal
Atomics International Div. NAA	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd, Glenview	Ill
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
CONTROLS FOR RADIATION, INC. Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	Box 748, Fort Worth	Tex
Cross-Malaker Laboratories	191 Mill Ln. Mountainside	NJ
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Industrial X-Ray & Research, Inc.	880 Second St. Muskegon	Mich
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Ioserve Inc.	191 Portland St, Cambridge 39	Mass
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	178 W Providencia, Burbank	Cal
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windsim Aves. Phila. 44	Pa
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
NUCLEAR SERVICE CONSULTANTS, INC. Adv Pg 133	650 11th Ave. New York 36	NY
Nukem, GmbH	Wolfgang bei Hanau/Main, Germany	
Pickard-Warren-Lowe Assoc.	1025 Conn Ave, NW, Wash 6	DC
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
RCA SERVICE CO. NUCLEAR & SCIENTIFIC SERVICES, Adv Pg 48	Cherry Hill, Delaware Tp. Camden 8	NJ
RadIonics Inc.	Lafayette & Water Sts. Norristown	Pa
Sharpe, Leon M.	61 Broadway, New York 6	NY
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Western Radiation Lab.	1107 W 24 St, Los Angeles 7	Cal

SERV. & CONS'LT: URANIUM CONVERSION

FORMS PRODUCED:
1. METAL INGOTS
2. METAL PLATES
3. METAL RODS
4. OXIDE PELLETS
5. OXIDE POWDER
6. ALLOYS

AEROJET-GENERAL NUCLEONICS, 4, Adv Pg 119	Box 77, San Ramon	Cal
American Metal Products Co. 4-5	5059 Lindale Ave. Detroit 4	Mich
BABCOCK & WILCOX CO. 2-3-4, Adv Pg 1	161 E 42 St. New York 17	NY
Eldorado Mining & Refining Ltd 1-2-3-4-5	John St, Port Hope, Ontario, Canada	
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. 1-2-3-4-5-6, Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
GRACE & CO. W. R., DAVISON CHEMICAL DIV. 1-2-3-4-5-6, Adv Pg 51	Erwin	Tenn
Ionics Inc. 5	152 6th St, Cambridge 42	Mass
MALLINCKRODT NUCLEAR CORP. 1-4-5, Adv Pg 29	2nd & Mallinckrodt Sts. St. Louis 7	Mo
Minnesota Mining & Mfg. Co. 4	900 Bush Ave, St. Paul 6	Minn
NATIONAL LEAD CO. 1-2-3-4-5-6, Adv. Pgs. 134,135	111 Broadway, New York 6	NY
Norton Co. 5	1 New Bond St. Worcester 6	Mass
NUCLEAR DEVELOPMENT CORP. OF AMERICA, 4, Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC) 4-5-6, Adv Pg 15 Apollo		Pa
Nuclear Metals, Inc. 3-6	Box 222 Concord	Mass
Nukem, GmbH, 1-2-3-4-5-6	Wolfgang bei Hanau/Main, Germany	
Olin Mathieson Chemical Corp. Nuclear Fuels Oper. 1-2-3-4-5-6	275 Winchester Ave. New Haven	Conn
Oregon Metallurgical Corp. 1-6	Box 484, Albany	Ore
Republic Steel Corp. 1-2-3-6	Republic Bldg. Cleveland 1	Ohio
RIO TINTO MINING CO. OF CANADA LTD. 1-2-3-4-5, Adv Pg 108	335 Bay St. Toronto, Ont Canada	
SAINT GOBAIN, 1-3-4-5-6, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Semi-Alloys Inc. 6	550 S Fulton Ave. Mt Vernon	NY
SPENCER CHEMICAL CO. 5, Adv Pg 88	500 Dwight Bldg. Kansas City 5	Mo
Sylvania-Corning Nuclear Corp. 1-2-3-6	208-20 Willets Point Blvd. Bayside	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), 1-2-3-6, Adv Pg 2	Box 898, Attleboro	Mass
Thermal Refractories Corp. 4	4501 Dell Ave, North Bergen	NJ
VAR-LAC-OID CHEMICAL CO. 5, Adv Pg 265	116 Broad St. New York 4	NY
VITRO CHEMICAL CO. 5, Adv Pg 254	342 Madison Ave. New York 17	NY
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. 1-2-3-4-6, Adv. Pgs. 138, 139, 144	Cheswick	Pa

SERV. & CONS'LT: URINALYSIS

Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminta Ave. Panorama City	Cal
BIOCHEMICAL PROCEDURES NUCLEAR ASSAY DIV. Adv Pg 61	12020 Chandler Blvd. N Hollywood	Cal
Bio-Nuclear Labs. Inc.	1503 Guadalupe St. Austin 1	Tex
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC. Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Hazleton-Nuclear Science Corp.	4062 Fabian Way, Palo Alto	Cal
Ioserve Inc.	191 Portland St, Cambridge 39	Mass
ISOTOPES INC. Adv Pg 116	123 Woodland Ave. Westwood	NJ
JOHNSTON LABS. INC., WILLIAM H., Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
New England Nuclear Corp.	575 Albany St. Boston	Mass
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
NUCLEAR SCIENCE & ENGINEERING CORP. Adv Pg 216	Box 10901, Pittsburgh 36	Pa
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Dagrow St. Brooklyn 31	NY
Occupational Hygiene Services	234 Calvary St, Waltham 54	Mass
Radiation Detection Co.	4047-49 Transport St, Palo Alto	Cal

RADIOCHEMISTRY, INC. Adv Pg 72	1111 W St. Catherine St. Louisville 10	Ky
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal

SERV. & CONS'LT: VENTILATION-SYSTEM DESIGN

Associated Nucleonics Inc.	975 Stewart Ave. Garden City	NY
Austin Co.	16112 Euclid Ave. Cleveland 12	Ohio
Barnes & Reinecke, Inc.	230 E Ohio St. Chicago 11	Ill
Batcheller, Inc., Willis T.	704 3rd Ave. Seattle 4	Wash
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd. Glenview	Ill
Boucher & Co. Ltd.	Pike Mills, Green St, Kidderminster, Worcester, England	
Brodsky, Hopf & Adler	220 E 23rd St. New York 10	NY
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Catalytic Construction Co.	1528 Walnut St. Philadelphia 2	Pa
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Commonwealth Associates, Inc.	209 E Washington Ave. Jackson	Mich
CONTROLS FOR RADIATION, INC. Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Coppus Engineering Corp.	334 Park Ave. Worcester	Mass
Dilworth, Secord, Meagher & Assoc Ltd	4214 Dundas St. W Toronto, Ont Canada	
Dollo & Associates, John	208 S La Salle St. Chicago 4	Ill
Domblatt & Assoc. Inc., B. M.	826 Lafayette St. New Orleans 12	La
Ebasco Services Inc.	2 Rector St. New York 6	NY
Ewbank & Partners Ltd.	11 Grosvenor Pl. London, SW 1, Eng	
Fluor Corp. Ltd.	12000 E Washington Blvd. Whittier	Cal
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Giffels & Rossetti, Inc.	1000 Marquette Bldg. Detroit 26	Mich
Gilbert Associates, Inc.	525 Lancaster Ave. Reading	Pa
Industrial Hygiene Associates	295 Upland Ave. Newton Highlands 61	Mass
Interatom, GmbH.	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Kaiser Engineers	300 Lakeside Dr, Oakland 12	Cal
Kinney, Inc., A. M.	2912 Vernon Pl, Cincinnati 19	Ohio
Kuljian Corp.	1200 N Broad St. Philadelphia 21	Pa
Main, Inc., Chas. T.	80 Federal St. Boston 10	Mass
Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Mast Development Co, Inc.	2212 E 12th St. Davenport	Iowa
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
NUCLEAR SERVICE CONSULTANTS, INC. Adv Pg 133	650 11th Ave. New York 36	NY
Occupational Hygiene Services	234 Calvary St. Waltham 54	Mass
Panero Engineers, Guy B.	630 3rd Ave. New York 17	NY
PIONEER SERVICE & ENGINEERING CO. Adv Pg 102	231 S La Salle St. Chicago 4	Ill
Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha	Neb
Robert & Co., Associates	96 Poplar St. NW, Atlanta 3	Ga
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Sargent & Lundy	140 S Dearborn St. Chicago 3	Ill
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Steels Engrg. Installations Ltd.	Sunderland, Durham, England	
Stone & Webster Engineering Corp.	49 Federal St, Boston 7	Mass
Sulzer Bros.	Winterthur, Switzerland	
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Westinghouse Elec Corp. Sturtevant Div.	Boston 36	Mass
Wheelabrator Corp. Dust & Fume Control Div.	1483 S Byrkit St. Mishawaka	Ind

SERV. & CONS'LT: WASTE DISPOSAL, RADIOACTIVE

Atomic Energy of Canada Ltd. Commercial Products Div.	Box 93, Ottawa, Ont Canada	
Booz-Allen Applied Research, Inc.	1031 Waukegan Rd. Glenview	Ill
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Catalytic Construction Co.	1528 Walnut St. Philadelphia 2	Pa
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Cosstwise Marine Disposal Co.	Box 43556, Hyde Park Sta. L A 62	Cal
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
CONTROLS FOR RADIATION, INC. Adv Pg 219	130 Alewife Brook Pkwy Cambridge 40	Mass
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
Crossroads Marine Disposal Corp.	26 T Wharf, Boston 10	Mass
Dilworth, Secord, Meagher & Assoc Ltd	4214 Dundas St. W Toronto, Ont Canada	
Domblatt & Assoc. Inc., B. M.	826 Lafayette St. New Orleans 12	La
Ebasco Services Inc.	2 Rector St. New York 6	NY
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Gilbert Associates, Inc.	525 Lancaster Ave. Reading	Pa
GRISCON-RUSSELL CO. Adv Pg 217	Massillon	Ohio
Interatom, GmbH.	Bensberg/Koeln, Postfach, Germany	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
Nuclear Engineering Co. Inc.	65 Ray St. Box 218, Pleasanton	Cal
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Nuclear Metals, Inc.	Box 222 Concord	Mass
NUCLEAR SERVICE CONSULTANTS, INC. Adv Pg 133	650 11th Ave. New York 36	NY
Ocean Transport Co.	1 Drumm St. San Francisco	Cal
Panero Engineers, Guy B.	630 3rd Ave. New York 17	NY
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
PINTSCH BAMAG AG, Adv Pg 276C	Postfach 11, Butzbach, Germany	
Quantum, Inc.	Lufbery Ave. Wallingford	Conn
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
RADIOLOGICAL SERVICE CO. INC. Adv Pg 86	811 W Merrick Rd. Valley Stream	NY
RELIANCE INCORPORATED, Adv Pg 261	1210-1212 Adams Ave. Phila 24	Pa
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Sharpe, Leon M.	61 Broadway, New York 6	NY
Thermal Research & Engineering Corp.	750 Brook Rd. Conshohocken	Pa
TURCO PRODUCTS, INC. Adv Pg 260	Box 1055, Wilmington	Cal
Union Carbide Nuclear Co. Div. Union Carbide Corp.	Box X, Oak Ridge	Tenn

SERV. & CONS'LT: WASTE TREATMENT, RADIOACTIVE

Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Catalytic Construction Co.	1528 Walnut St. Philadelphia 2	Pa
Chem-Pure Service Co.	762 Industrial Rd. San Carlos	Cal
Cleaver-Brooks Special Products Inc.	225 N Grand Ave. Waukesha	Wis
Cochrane Corp.	3214 17th St. Philadelphia 32	Pa
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Domblatt & Assoc. Inc., B. M.	826 Lafayette St. New Orleans 12	La
Dorr-Oliver Inc.	77 Havemeyer Ln. Stamford	Conn
Ebasco Services Inc.	2 Rector St. New York 6	NY
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Gannett Fleming Corddry & Carpenter Inc	600 N 2nd St, Harrisburg	Pa
Gilbert Associates, Inc.	525 Lancaster Ave. Reading	Pa
Interatom, GmbH.	Bensberg/Koeln, Postfach, Germany	
INTERNUCLEAR CO. Adv Pg 253	7 N Brentwood Blvd. Clayton 5	Mo
Ionics Inc.	152 6th St, Cambridge 42	Mass
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
PINTSCH BAMAG AG, Adv Pg 276C	Postfach 11, Butzbach, Germany	
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Sharpe, Leon M.	61 Broadway, New York 6	NY
Siemens-Reiniger-Werke AG.	Luipoldstr. 45, Erlangen, Germany	
Thermal Research & Engineering Corp.	750 Brook Rd. Conshohocken	Pa
TURCO PRODUCTS, INC. Adv Pg 260	Box 1055, Wilmington	Cal
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal

SERV. & CONS'LT: WATER CONDITIONING

ALLIS-CHALMERS MFG. CO. Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
American Sterilizer Co.	Box 620, Erie	Pa
Batcheller, Inc., Willis T.	704 3rd Ave. Seattle 4	Wash
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Burns & Roe, Inc.	160 W Broadway, New York 13	NY
Chem-Pure Service Co.	762 Industrial Rd. San Carlos	Cal
Cochrane Corp.	3214 17th St. Philadelphia 32	Pa
Domblatt & Assoc. Inc., B. M.	826 Lafayette St. New Orleans 12	La
Dorr-Oliver Inc.	77 Havemeyer Ln. Stamford	Conn
Ebasco Services Inc.	2 Rector St. New York 6	NY
Gannett Fleming Corddry & Carpenter Inc	600 N 2nd St, Harrisburg	Pa
Gilbert Associates, Inc.	525 Lancaster Ave. Reading	Pa
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Kuljian Corp.	1200 N Broad St. Philadelphia 21	Pa
Metering Pumps Ltd.	21 The Mall, Ealing, London, W5, Eng	
NALCO CHEMICAL CO. Adv Pg 53	6318 W 66th Pl. Chicago 38	Ill
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
NUCLEAR SERVICE CONSULTANTS, INC. Adv Pg 133	650 11th Ave. New York 36	NY
Panero Engineers, Guy B.	630 3rd Ave. New York 17	NY
Permutit Co. Div. Pfaudler Permutit Inc.	50 W 44th St. New York 36	NY
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa

Sulzer Bros.	Winterthur, Switzerland	
Thompson, Ltd., John	Wolverhampton, England	
Wallace & Tiernan, Inc.	25 Main St, Belleville 9	NJ
Water Associates	45 Franklin St, Framingham	Mass

SERV. & CONS'LT: WELDING, NUCLEAR

Air Liquide	75 Quai d'Orsay, Paris, France	
American Welding & Mfg. Co.	555 Dietz Rd, Warren	Ohio
AVERY & SAUL CO. Adv Pg 8	115 Rindge Ave. Cambridge	Mass
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd.	209 Euston Rd, London NW 1, England	
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	Dept N B, Philadelphia 42	Pa
Boucher & Co. Ltd.	Pike Mills, Green St, Kidderminster, Worcester, England	
Burns & Roe, Inc.	150 W Broadway, New York 13	NY
Canadian GE Co. Ltd.	107 Park St, Peterborough, Ont Can	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Cayuga Machine & Fabricating Co. Inc.	200 W Gould Ave, Depew	NY
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	Box 748, Fort Worth	Tex
Cook Electric Co, Nucledyne Div.	3412 River Rd, Franklin Park	Ill
DRESSER PRODUCTS, INC. Adv Pg 92	Great Barrington	Mass
Ebasco Services Inc.	2 Rector St, New York 6	NY
Electric Boat Div. Gen. Dynamics Corp.	Groton	Conn
Farrel-Birmingham Co. Inc.	Ansonia	Conn
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. Adv Pg 106	4809 Tod Ave. East Chicago	Ind
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
Lincoln Electric Co, Ltd.	Black Fan Rd, Welwyn Garden City, Herts,	Eng
MIDWEST PIPING CO. INC. Adv Pg 71	1450 S 2nd St. St. Louis 4	Mo
NATIONAL ANNEALING BOX CO. Adv Pg 268	Washington	Pa
New York Shipbuilding Corp.	Camden 1	NJ
Nooter Corp.	1424 S 3rd St, St. Louis 66	Mo
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Olin Mathieson Chemical Corp. Nuclear Fuels Oper.	275 Winchester Ave, New Haven	Conn
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
PHOENIX-RHEINROHR AG, Adv Pg 276K	August-Thyssen-Str. 1, Dusseldorf, Ger	
Pickard-Warren-Lowe Assoc.	1025 Conn Ave. NW, Wash 6	DC
PITTSBURGH PIPING & EQUIPMENT CO. Adv Pg 246	158 49th St. Pittsburgh	Pa
Process Equipment Co.	150 Studebaker Rd, Tipp City	Ohio
Rosemount Engineering Co.	4900 W 78 St, Minpls, 24	Minn
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Salem-Brosius Inc.	Box 2222, Carnegie	Pa
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St, Milwaukee 1	Wis
Sulzer Bros.	Winterthur, Switzerland	
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
Thompson, Ltd., John	Wolverhampton, England	
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. Adv. Pgs. 76, 77	Beach St. Beverly	Mass
U. S. I. Technical Center Div. U. S. Industries, Inc.	3901 NE 12 Ave, Pompano Beach	Fla
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
WESTINGHOUSE ELEC CORP. ATOMIC FUEL DEPT. Adv. Pgs. 138, 139, 144	Cheswick	Pa
Westinghouse Elec Corp. Steam Div.	Lester	Pa

SERV. & CONS'LT: WELL-LOGGING

Uranium Instruments Co.	Box 1191, Grand Junction	Colo

SERVOMECHANISMS
See Also MOTORS—SERVO

ACF Industries, Inc.	750 3rd Ave, New York 17	NY
A.E.I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
Aero Supply Mfg. Co. Inc.	Corry	Pa
ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	43 Leon St. Boston 15	Mass
Ansco Div. Gen. Anil. & Film Corp.	175 Clinton St, Binghamton	NY
Avien, Inc.	58-15 Northern Blvd. Woodside 77	NY
Bell Telephone Mfg Co, Nuc Energy Dv.	Berkenrodeiei 75, Antwerp, Belgium	
Belock Instrument Corp.	112-03 14th Ave. College Point 56	NY
Bendix-Pacific Div, Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
Bethlehem Steel Corp.	701 E 3rd St, Bethlehem	Pa
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Boos-Allen Applied Research, Inc.	1031 Waukegan Rd, Glenview	Ill
Bowmar Instrument Corp.	8000 Bluffton Rd, Fort Wayne	Ind
BRISTOL CO. Adv Pg 110	Box 1790 HBG, Waterbury 20	Conn
Consolidated Controls Corp.	14 Durant Ave, Bethel	Conn
CONVAIR, DIV. GEN. DYNAMICS CORP. Adv Pg 104	Box 748, Fort Worth	Tex
Delmo Victor Co. Div. Textron Inc.	1515 Industrial Way, Belmont	Cal
Design Service Co. Inc.	76 9th Ave. New York 11	NY
Djeco Div. Djordjevic Engg. Co.	1933 N Damen, Chicago 47	Ill
Dychro Corp.	49 Walnut St, Wellesley 81	Mass
Eclipse Pioneer Div, Bendix Corp.	Teterboro	NJ
Electric Tachometer Corp.	68 & Upland Sts, Phila 42	Pa
Electroflo Meters Co. Ltd.	Abbey Rd, Park Royal, NW 10, London	Eng
EX-CELL-O CORP. Adv. Pgs. 62, 63	1200 Oakman Blvd. Detroit 32	Mich
FLIGHT REFUELING INC. Adv Pg 133	Box 1701, Baltimore 3	Md
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
Harvey Electronics Ltd.	273 Farnborough Rd, Farnboro, Hants	Eng
Holley Carburetor Co.	11955 E 9 Mile Rd, Warren	Mich
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Hull Associates	30 W Monroe St, Chicago 3	Ill
Hydel, Inc.	223 Crescent St, Waltham 54	Mass
Intercontinental Dynamics Corp.	170 Coolidge Ave, Englewood	NJ
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd, London, SW1, England	
KAMAN NUCLEAR, Adv Pg 258	Box 3217, No. End Sta. Colorado Springs	Colo
KEARFOTT DIV. GEN. PRECISION, INC. Adv Pg 269	1150 McBride Ave. Little Falls	NJ
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Librascope Div. Gen Precision, Inc.	Glendale 1	Cal
Link Div. - Gen. Precision, Inc.	Binghamton	NY
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Magnetic Amplifiers Div. Siegler Corp.	632 Tinton Ave, New York 55	NY
Marquardt Corp.	16555 Saticoy St, Van Nuys	Cal
Midwestern Instruments	41st & Sheridan Rd, Box 7509, Tulsa 18	Okla
Miles Electronics Ltd.	Shoreham Arpt, Shoreham, Sussex, Eng	
Minn-Honeywell Reg. Co, Con Dev Div.	2753 4th Ave. S, Minpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
Muirhead Instruments Inc.	441 Lexington Ave, New York 17	NY
New York Air Brake Co.	230 Park Ave, New York 17	NY
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		Pa
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Oilgear Co.	1560 W Pierce St, Milwaukee	Wis
Oster Mfg. Co., John, Avionic Div.	1 Main St, Racine	Wis
Paraplegics Mfg. Co, Inc.	304 York Rd, Bensenville	Ill
Parker Aircraft Co.	5627 W Century Blvd, L A 45	Cal
Philco Corp.	4700 Wissahickon Ave, Phila 44	Pa
Pioneer Designs Ltd, Servokits Div.	6 Hampton Ct, Par, E Molesey, Surr, Eng	
Precision Mechanisms Corp.	577 Newbridge Ave, East Meadow	NY
Reeves Instrument Corp.	E Gate Blvd. Garden City	NY
Republic Flow Meter Co.	2260 Diversey Pkwy. Chicago 47	Ill
Schaevitz Engineering	Rt. 130 & Schaevitz Blvd. Pennsauken	NJ
Servomechanisms Inc.	200 Aviation Blvd, El Segundo	Cal
Servo Units, Ltd.	273 Farnborough Rd, Farnborough, Hants, Eng	
Special Instruments Lab, Inc.	312 W Vine Ave, Knoxville 02	Tenn
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Telecro Industries Corp.	35-16 37th St, LIC 1	NY
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Trio Machine Works, Inc.	3045 N 3rd St, Philadelphia 33	Pa
United Control Systems, Inc.	918 Woodley Rd, Dayton 3	Ohio

SHAFTS—FLEXIBLE

Johnson Co., E. F.	Waseca	Minn
Kupfrian Mfg. Corp.	350 State St, Binghamton	NY
Lear, Inc.	110 Ionia Ave, NW, Grand Rapids	Mich
P I C Design Corp.	477 Atlantic Ave. E Rockaway	NY
STEWART CORP., F. W. Adv Pg 126	4311 N Ravenswood Ave. Chicago 13	Ill
Stow Mfg. Co.	355 Shear St, Binghamton	NY
Technology Instrument Corp.	531 Main St, Acton	Mass
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
White Industrial Div., S. S.	10 E 40 St, New York 16	NY

SHELLS—CYLINDRICAL

Electric Steel Foundry Co.	2141 NW 25 Ave. Portland 10	Ore
PACIFIC COAST ENGINEERING CO. Adv Pg 52	P. O. Drawer E, Alameda	Cal
SANDUSKY FOUNDRY & MACHINE CO. Adv Pg 94	W Market St. Sandusky	Ohio
U S PIPE & FOUNDRY CO. STEEL & TUBES DIV. Adv. Pgs. 18, 19	Burlington	NJ
Wisconsin Centrifugal Foundry Inc.	905 E St. Paul Ave, Waukesha	Wis

SHELLS—STATOR

Croydon Engineering Co. Ltd.	Commerce-Purley Way, Croydon, Surrey, England	
Industrial Forge & Steel, Inc.	1501 Allen Ave. SE, Canton	Ohio
National Forge Co.	10 Front St. Irvine, Warren County	Pa
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
SANDUSKY FOUNDRY & MACHINE CO.		
Adv Pg 94	W Market St. Sandusky	Ohio
U S PIPE & FOUNDRY CO. STEEL & TUBES DIV.		
Adv. Pgs. 18, 19	Burlington	NJ

SHIELDING—RADIATION

See Also METALS, ALLOYS & COMPOUNDS
SERVICES: SHIELDING DESIGN

1. BONDED LEAD-STEEL
2. BORATED PLASTICS
3. CASKS, SPENT-FUEL SHIPPING AND STORAGE
4. CONCRETE AGGREGATES
5. DEPLETED URANIUM
6. HIGH-DENSITY CONCRETE
7. HIGH-DENSITY GLASS
8. LEAD BRICKS
9. LEAD CASTINGS
10. PLASTIC
11. SHIELDED CONTAINERS
12. SHIELDED DOORS
13. WINDOWS

Air-Shields, Inc. 10	Hatboro	Pa
Alfa American Corp. 7-13	303 W 42nd St. New York 36	NY
Allied Engineering & Production Corp. 1-3-6-8-9-10-11-12-13	2421 Blanding Ave. Alameda	Cal
Allied Lead Construction Co. 1-3-6-7-8-9-11-12-13	6836 S Chicago Ave. Chicago	Ill
Allied Plastics Supply Corp. 2-10	75 Cliff St. New York 38	NY
Allied Resinous Products, Inc. 2-10	Whitney Rd. & Clark St. Conneaut	Ohio
Alloy Flange & Fitting Corp. 13	222 Eagle St. Brooklyn	NY
Alloys Unlimited, Inc. 9	21-01 43rd Ave. LIC 1	NY
Alpha Metals, Inc. 3-9-11	80R Water St. Jersey City 4	NJ
AMERAY CORP. 1-3-4-6-7-8-9-10-11-12-13,		
Adv Pg 114	Route 46, Keavil	NJ
American Agile Corp. 2-10	Box 168, Bedford	Ohio
AMERICAN SMELTING & REFINING CO. 8-11,		
Adv Pg 125	120 Broadway, New York 5	NY
Ames Metal Products Co. 1-3-7-8-9-11-12-13	4323 S Western Ave. Chicago	Ill
Andel & Co, Inc. 4-6-7-8-9-11-12-13	5218 N Kedzie Ave. Chicago 25	Ill
Atomasters-Sunsaine Corp. 3-8-9-11	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. 8-11,		
Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Atomic Energy of Canada Ltd. Commercial Products Div. 8-11	Box 93, Ottawa, Ont Canada	
ATOMIC RESEARCH LAB. 8-9, Adv Pg 61	14725 Arminta Ave. Panorama City	Cal
AVERY & SAUL CO. 11, Adv Pg 8	115 Rindge Ave. Cambridge	Mass
Ayling Nuclear Equip. Co. Ltd. 12	Foundry Ln. Horsham, Sussex, England	
BABCOCK & WILCOX CO. 3-11-12,		
Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd. 11	209 Euston Rd. London NW 1, England	
BAIRD-ATOMIC, INC. 8-11, Adv Pg 65	33 University Rd. Cambridge 38	Mass
BALDWIN-LIMA-HAMILTON CORP. 3,		
Adv Pg 103	Dept N B, Philadelphia 42	Pa
BAR-RAY PRODUCTS, INC. 1-3-7-8-9-10-11-12-13,		
Adv Pg 242	209 25th St. Brooklyn 32	NY
BELGONUCLEAIRE, 3, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Belmont Smelting & Refining Works, Inc. 8-9	322 Belmont Ave. Brooklyn 7	NY
Bethlehem Steel Corp. 1-12	701 E 3rd St. Bethlehem	Pa
Bleiwerk Goslar GmbH, 1-2-3-5-8-9-10-11-12	Goslar, Germany	
BROOKS & PERKINS, INC. 3-12,		
Adv Pg 48	1926 W Fort St. Detroit 16	Mich
Brown Ind. Ltd., David, 1-2-3-5-8-9-10-11-12	Hampson St. Manchester, England	
Cadillac Plastic & Chemical Co. 10-13	15111 2nd Ave. Detroit 3	Mich
CAMBRIDGE SMELTING CO. 8-9,		
Adv Pg 116	100 Pacific St. Cambridge	Mass
Canadian GE Co. Ltd. 3-6-9	107 Park St. Peterborough, Ont Can	
Canadian Vickers Ltd. 1-2-3-5-8-9-10-11-12	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
CHANCE-PILKINGTON OPTICAL WORKS, 7-13,		
Adv Pg 241	St. Asaph, Flintshire, Great Britain	
Chemical Development Corp. 2-10	Endicott St. Danvers	Mass
Coastwise Marine Disposal Co 4-6-10-11	Box 43556, Hyde Park Sta. L A 62	Cal
Combustion Engineering, Inc. 11	200 Madison Ave. New York 16	NY
Conneaut Rubber & Plastic Co. Div. U. S. Stoneware Co. 2-10	Box 621, Conneaut	Ohio
Controlled Atmosphere Enclosures Mfg. Co. 10	1061 E 8th St. Jacksonville 6	Fla
CONVAIR, DIV. GEN. DYNAMICS CORP. 3,		
Adv Pg 104	Box 748, Fort Worth	Tex
Cook Electric Co, Nucledyne Div. 3-11-12	3412 River Rd. Franklin Park	Ill
Corning Glass Works, 7-13	Corning	NY
Devcon Corp. 1-10	Endicott St. Danvers	Mass
Division Lead Co. 1-8-9-11-12	7742 W 61st Pl. Summit	Ill
Doran Co., A. V., 3-5	950 Francis Pl. St. Louis 5	Mo
Edlow Lead Co. 3-8-9-11-12	729 Bank St. Columbus 16	Ohio
Electric Boat Div. Gen. Dynamics Corp. 1-2-3-11	Groton	Conn
Emerson & Cuming, Inc. 2-10-12	59 Walpole St. Canton	Mass
Emerson Plastics Corp. 10	1383 Seabury Ave. Bronx 61	NY
Enthoven & Sons, Ltd., H. J. 3-8-9-11-12	South Pl. London, EC2, England	
Esso Standard Div Humble Oil & Ref Co 10	15 W 51st St. New York 19	NY
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks. 13	Goldsmith Ave. Portsmouth, Hants, Eng	
Falk & Co. Ltd., M. 11	Emefco House, Reigate, Surrey, Eng	
Farrel-Birmingham Co. Inc. 3-9-11-12	Ansonia	Conn
Fish-Schurman Corp. 7	70 Portman Rd. New Rochelle	NY
Foster Wheeler Ltd. 1-8-11	Box 430, St. Catharines, Ontario, Can.	
Frank & Schulte Handelsges, m.b.H. 4-6	152 Alfredstr. Essen, Germany	
FRIESEKE & HOEPFNER GmbH, 8,		
Adv Pg 276H	Erlangen-Bruck, Germany	
Gamma Industrie, 11	52 Rue de Dunkerque, Paris 9, France	
Gilardoni S.p.A. 11-13	Via Statale, Mandello Lario, Como	Italy
GRACE & CO. W. R., DAVISON CHEMICAL DIV. 5,		
Adv Pg 51	Erwin	Tenn
Harty Co. Inc., R. V. 3-12-13	1433 Sloman Ave. Detroit 11	Mich
Hawker Siddeley Nuclear Power Co. Ltd. 3-11	Sutton Ln. Langley, Nr. Slough, Bucks	Eng
Hayward Scientific Glass Corp. 7	217 N Magnolia Ave. Whittier	Cal
Herring-Hall-Marvin Safe Co. Div. Diebold Inc. 12	Hamilton	Ohio
Instrument & Development Prods Co Inc 1	355 W 109th Pl. Chicago	Ill
International Shielding Industries, 1-2-3-5-8-9-10-11-12	Foot of West St. Wilmington	Del
Intrusion-Prepakt, 4-6	568 Union Commerce Bldg. Cleveland 14	Ohio
Irwin & Partners Ltd., E. G. 12-13	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
ISOTOPE DEVELOPMENTS LTD. 8-11,		
Adv Pg 239	Bath Rd. Reading, Berks, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, 3-8-9-11,		
Adv Pg 128	170 W Providencia, Burbank	Cal
JENAER GLASWERK SCHOTT & GEN 7-13,		
Adv Pg 276Z	10 Hattenberstr. Mainz/Rhein W Ger	
JOHNSON & ASSOC. INC., WILLIAM B. 8,		
Adv Pg 255	Box 415 Mountain Lakes	NJ
K-Plastix, 2-10	55 Elmira St. San Francisco 24	Cal
Kahl Scientific Instrument Corp. 11	Box 1186 El Cajon	Cal
Kaiser Engineers, 6	300 Lakeside Dr. Oakland 12	Cal
KELLEY & CO., O. G. 1-3-8-9-11-12,		
Adv Pg 30	98 Taylor St. Boston 22	Mass
KEWAUNEE MFG. CO. 11, Adv Pg 86	5083 S Center St. Adrian	Mich
Knapp Mills Inc. 1-2-3-5-8-9-10-11-12	23-15 Borden Ave. LIC	NY
L. & F. MACHINE CO. 3-11-12,		
Adv Pg 238	2110 Belgrove Ave. Huntington Park	Cal
Lasker Boiler & Engineering Corp 1-11-12	3201 S Wolcott Ave. Chicago 8	Ill
Lead Fabricators, Inc. 1-3-6-7-8-9-11-12-13	25 Belgrove Dr. Kearny	NJ
LEAD PRODUCTS, INC. 8-9, Adv Pg 116	Hartford Rd. Manchester	Conn
Lennard Co. Inc., P. M. 10	1061 E 8th St. Jacksonville 6	Fla
Lignostone Import Co. 2-3-10-11-12	Box 65, Gracie Sta. NY 28	NY
LINCOLN FOUNDRY CORP. 3-11-12,		
Adv Pg 238	2525 E 49 St. Los Angeles	Cal
MAGNETIC SHIELD DIV. PERFECTION MICA CO. 10-11-12-13,		
Adv Pg 254	1322 N Elston Ave. Chicago 22	Ill
Mann Mfg. Co, Inc. 13	229 Burlington Rd. Clarendon Hills	Ill
MARTIN CO. NUCLEAR DIV. 3, Adv Pg 5	Mail G-3037 Baltimore 3	Md
Master Builders Co. 4	2490 Lee Blvd. Cleveland 18	Ohio
Material Service Div. Gen. Dynamics Corp. 4-6	300 W Washington St. Chicago 6	Ill
Meehanite Metal Corp. 12-13	714 North Ave. New Rochelle	NY
MICHIGAN CHEMICAL CORP. RARE EARTH & THORIUM DIV. 2-13,		
Adv Pg 60	St. Louis	Mich
Mosler Safe Co. 12	Grand Blvd. Hamilton	Ohio
NATIONAL ANNEALING BOX CO. 3-11,		
Adv Pg 268	Washington	Pa
NATIONAL LEAD CO. 1-2-3-4-5-8-9-11-12,		
Adv. Pgs. 134, 135	111 Broadway, New York 6	NY
Nopco Chemical Co. 10	175 Schuyler Ave. North Arlington	NJ
Norton Co. 2	1 New Bond St. Worcester 6	Mass
NUCLEAD, INC. 8-9, Adv Pg 116	110 Pacific St. Cambridge	Mass
NUCLEAR-CHICAGO CORP. 8-11,		
Adv. Pgs. 80, 81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR DEVELOPMENT CORP. OF AMERICA, 1-2-3-4-5-6-7-8-9-10-11-12-13,		
Adv Pg 32	5 New St. White Plains	NY
Nuclear Engineering Ltd. 11	Langley Nr. Slough, Bucks, England	
Nuclear Metals, Inc. 3-5	Box 222 Concord	Mass
NUCLEAR-OHIO, INC. 8-9-11, Adv Pg 54	27105 Knickerbocker Rd. Cleveland 40	Ohio
Nuclear Research Applications Ltd. 8-11	Bell St. Reigate, Surrey, England	

NUCLEAR SHIELDING SUPPLIES & SERVICE INC. 4-6, Adv Pg 256	175 Main St. White Plains	NY
NUCLEONIC CORP. OF AMERICA, 2-7-8, Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Nydqvist & Holm Aktiebolag, 1-2-3-5-8-9-10-11-12	Trollhatten, Sweden	
Officine Ing. Demichelis & C. 1-2-3-5-8-9-10-11-12	Via Bistolfi 31, Milan, Italy	
Optical Works Ltd, 7-13	32 The Mall, Ealing W5, England	
Oregon Metallurgical Corp, 5	Box 484, Albany	Ore
PACIFIC COAST ENGINEERING CO. 1-2-3-4-5-8-11-12, Adv Pg 52	PO Drawer E, Alameda	Cal
Panax Equipment, Ltd. 9	Holmethorpe Ind. Est. Redhill, Surr, Eng	
Pantatron Ltd, 9-11	5A Princes St, Hanover Sq, London W1, Eng	
Peelle Co. 12	47 Stewart Ave. Brooklyn 37	NY
PENBERTHY INSTRUMENT CO. 7-13, Adv Pg 111	4301 6th Ave. S, Seattle 8	Wash
Penn Fibre & Specialty Co. 10	2020 E Westmoreland St. Philadelphia 34	Pa
Permagile Corp. of America, 10	34-43 56th St. Woodside	NY
PERMALI, INC. 2-10-11-12-13, Adv Pg 59	Box 718, Mt. Pleasant	Pa
PHOENIX-RHEINROHR AG,11,Adv Pg 276K	August-Thyssen-Str. 1, Dusseldorf, Ger	
Picker & Harting Vertrieb GMBH, 8	Espelkamp-Mittwald Krs, Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. 8-11-12-13, Adv Pg 109	25 S Broadway, White Plains	NY
Pittsburgh-Des Moines Steel Co, 1-10-11	Neville Island, Pittsburgh 25	Pa
Pittsburgh Plate Glass Co. 7-13	632 Fort Duquesne Blvd. Pittsburgh 22	Pa
Plastimayd Corp, 10	2204 SE 7th Ave, Portland 14	Ore
Process Equipment Co. 1-11-12	150 Studebaker Rd. Tipp City	Ohio
Radiation Applications, Inc. 3	36-40 37th St, Long Island City 1	NY
RADIATION COUNTER LABS. INC. 8, Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB. 8, Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Radiation Products, Inc. 1-2-3-8-9-11-12-13	Pt. 40 Rd, Flushing 52	NY
RADIUM CHEMICAL CO. INC. 8-9-11, Adv Pg 14	161 E 42nd St. New York 17	NY
RAY-PROOF CORP. 1-3-4-6-7-8-9-10-11-12-13, Adv Pg 276	843 Canal St. Stamford	Conn
RELIANCE INCORPORATED, 3-9, Adv Pg 261	1210-1212 Adams Ave. Phila 24	Pa
Research Equipment Co, 13	502 Sunnyside, Wheaton	Ill
Resistoflex Corp. 10	Woodland Rd, Roseland	NJ
Robatel & Mulatier, 1-2-3-5-8-9-10-11-12	59 A 69 Rue Baraban, Lyon, France	
SAINT GOBAIN, 3-6-7-8-9-10-11-12-13, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
St. John X-Ray Laboratory, 11	Califon	NJ
Salem-Brosius Inc. 3	Box 2222, Carnegie	Pa
SELO, 8-11	Via Monfalcone, 12, Milano, Italy	
Semi-Alloys Inc. 1-8-9	550 S Fulton Ave. Mt. Vernon	NY
Servonuclear Corp, 8-11	28-21 Astoria Blvd, Long Island City	NY
SHARP LABORATORIES, INC. 8, Adv Pg 248	Box 1382, La Jolla	Cal
Solar Aircraft Co. 11	2200 Pacific Hwy, San Diego 12	Cal
Southern Lead Rolling Co, 1-8-9	Box 6195, Dallas 22	Tex
Stanray Corp. 3-11-12	200 S Michigan Ave. Chicago 4	Ill
Stearns-Roger Mfg. Co. 1-3-9-11	Box 5888, Denver 17	Colo
Sumner Sollitt Co. 6	307 N Michigan Ave, Chicago 1	Ill
Taylor Fibre Co. 10	Norristown 40	Pa
TECHNICAL ASSOCIATES, 1-3-8-9-11, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
Technical Operations, Inc. 11	South Ave. Burlington	Mass
Telecro Industries Corp, 1-10-11-12	35-16 37th St, LIC 1	NY
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), 5, Adv Pg 2	Box 898, Attleboro	Mass
Thompson, Ltd., John	Wolverhampton, England	
TOKYO SHIBAURA ELECTRIC CO., LTD. 11, Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TOSI, S.p.A., FRANCO, 11, Adv Pg 276T	Legnano, Milan, Italy	
Unibrix Radiation Shieldings Ltd. 4-6	190 Piccadilly, London W1, England	
U. S. NUCLEAR CORP. 2-3-5-8-9-11, Adv Pg 262	801 N Lake St. Box 298, Burbank	Cal
Vickers-Armstrongs (S. Marston) Ltd. 3-8-9-11-12	Swindon, Wiltshire, England	
Victor Chemical Works, 4	155 N Wacker Dr. Chicago 6	Ill
VIENER & SONS, HYMAN, 1-8-9-11, Adv Pg 262	5300 Hatcher St. Box 573, Richmond 5	Va
Vogel & Cie, P. 8-9-11	Veyrier pres Geneve, Switzerland	
Walsh Associates, Charles, 8-9-11	Box 244, Deerfield	Ill
Westlake Plastics Co. 2-10	W Lenni Rd. Lenni Mills	Pa
Willamette Iron & Steel Co, 1-3-11-12	280 NW Front Ave, Portland	Ore
Wilmad Glass Co, 7	Rt. 40 & Oak Rd, Buena	NJ
Zentralwerkstatt Gottingen GmbH, 11	Box 624, Gottingen, W Germany	

SHIELDS—MAGNETIC

Ace Engineering & Machine Co. Inc.	Tomlinson Rd. Huntington Valley	Pa
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Emerson & Cuming, Inc.	59 Walpole St. Canton	Mass
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
MAGNETIC SHIELD DIV. PERFECTION MICA CO. Adv Pg 254	1322 N Elston Ave. Chicago 22	Ill
National Moldite Co. Inc.	250 South St. Newark 5	NJ
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEAR-OHIO, INC. Adv Pg 54	27105 Knickerbocker Rd. Cleveland 40	Ohio
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
RAY-PROOF CORP. Adv Pg 276	843 Canal St. Stamford	Conn
Rimak Electronics Inc.	10929 Vanowen St. No. Hollywood	Cal

SHIELDS—R-F

Ace Engineering & Machine Co. Inc.	Tomlinson Rd. Huntington Valley	Pa
Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
Auburn Mfg. Co.	500 Stack St. Middletown	Conn
Connecticut Hard Rubber Co.	New Haven 9	Conn
Emerson & Cuming, Inc.	59 Walpole St. Canton	Mass
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
MAGNETIC SHIELD DIV. PERFECTION MICA CO. Adv Pg 254	1322 N Elston Ave. Chicago 22	Ill
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEAR DEVELOPMENT CORP. OF AMERICA, Adv Pg 32	5 New St. White Plains	NY
RAY-PROOF CORP. Adv Pg 276	843 Canal St. Stamford	Conn

SHOWERS—EMERGENCY
See Also DECONTAMINATING EQUIPMENT

HAWS DRINKING FAUCET CO. Adv Pg 100	1439 4th St. Berkeley 10	Cal
Logan Emergency Showers, Inc.	136 N Maryland Ave, Box 111, Glendale	Cal
New Jersey Safety Equipment Co.	299 Park Ave. East Orange	NJ

SIGNS—WARNING, RADIATION

Abbott Laboratories	Box 1008, Oak Ridge	Tenn
Ad-O-Plastic	240 Amboy Ave. Woodbridge	NJ
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
ATOMIC RESEARCH LAB. Adv Pg 61	14725 Arminta Ave. Panorama City	Cal
Brady Co., W. H.	727 W Glendale Ave. Milwaukee 12	Wis
Budd Co. Instruments Div.	Box 245, Phoenixville	Pa
CHARLESTON RUBBER CO. Adv Pg 73	Stark Industrial Pk. Charleston	SC
Curtis Nuclear Corp.	1645 W 135th St, Gardena	Cal
Ericsson Telephones Ltd.	High Church St. New Basford, Nott, Eng	
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
Instruments, Inc.	Box 556, Tulsa	Okla
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
New Jersey Safety Equip. Co.	299 Park Ave. Box 186, East Orange	NJ
Nuclear Consultants Corp.	9842 Manchester Rd. St. Louis 19	Mo
Nuclear Engineering Co. Inc.	65 Ray St. Box 218, Pleasanton	Cal
NUCLEAR MEASUREMENTS CORP. Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
RADIATION COUNTER LABS. INC. Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
READY MADE SIGN CO. INC. Adv Pg 187	115 Worth St. New York 13	NY
Republic Steel Corp.	Republic Bldg. Cleveland 1	Ohio
Rimak Electronics Inc.	10929 Vanowen St. No. Hollywood	Cal
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 298, Burbank	Cal

SIMULATORS—REACTOR
See Also COMPUTERS—ANALOG

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Atomics International Div. NAA	Box 309, Canoga Park	Cal
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Belock Instrument Corp.	112-03 14th Ave. College Point 56	NY
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Curtiss-Wright Corp. Electronics Div.	35 Market St. East Paterson	NJ
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Dian Laboratories, Inc.	611 Broadway, New York 12	NY
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Integra, Leeds & Northrup Ltd.	Broad St, Birmingham 15, England	
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Link Div. - Gen. Precision, Inc.	Binghamton	NY

Marquardt Corp.	16555 Saticoy St. Van Nuys	Cal
Miles Electronics Ltd.	Shoreham Arpt. Shoreham, Sussex, Eng	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	**Wayne & Windrim Avos. Philo. 44**	**Pa**
RCA SERVICE CO. NUCLEAR & SCIENTIFIC SERVICES, Adv Pg 48	**Cherry Hill, Delaware Tp. Camden 8**	**NJ**
Solartron Electronic Group Ltd.	Victoria Rd. Farnborough, Hants, Eng	
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yursku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
Vickers- Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	

SINKS—LABORATORY

Allied Lead Construction Co.	6836 S Chicago Ave. Chicago	Ill
American Agile Corp.	Box 168, Bedford	Ohio
American-Standard Prod. (Can) Ltd.	1201 Dupont St. Toronto 4, Ont Can	
Ames Metal Products Co.	4323 S Western Ave. Chicago	Ill
Brown- Morse Co.	110 E Broadway, Muskegon	Mich
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
Duralab Equipment Corp.	989 Linwood St. Brooklyn 8	NY
Duriron Co. Inc.	450 N Findlay St. Dayton 4	Ohio
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Hamilton Mfg. Co.	Two River	Wis
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
K-Plastix	55 Elmira St. San Francisco 24	Cal
KEWAUNEE MFG. CO. Adv Pg 86	**5083 S Center St. Adrian**	**Mich**
Knight Co., Maurice A.	Box 111. Akron 9	Ohio
Laboratory Furniture Co. Inc.	Old Country Rd. Mineola	NY
Lennard Co. Inc., P. M.	1061 E 8th St. Jacksonville 6	Fla
Reetz Co., Robert C.	81 Montgomery St. Pawtucket	RI
Terriss-Consolidated Industries	22-24 Wooster St. New York 13	NY
Warren Corp.	2901 Brighton Rd. Pittsburgh 12	Pa
WELCH MFG. CO., W.M. Adv Pg 214	**1515 Sedgwick St. Chicago 10**	**Ill**
Will Corp.	Box 1050, Rochester 3	NY

SITE LOCATION
See SERVICES: SITE LOCATION

SITE MONITORS—RADIOACTIVITY
See *Under* MONITORS—RADIATION

SOLENOIDS

A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Aero Supply Mfg. Co. Inc.	Corry	Pa
Allen-Bradley Co.	136 W Greenfield Ave. Milwaukee 4	Wis
AUTOMATIC SWITCH CO. Adv Pg 87	**56M Hanover Rd. Florham Park**	**NJ**
B/W Controller Corp.	2200 E Maple Rd. Birmingham	Mich
British Electrical Repairs Ltd.	10 Charlotte St. Manchester 1, Eng	
Caltron Products Co.	3518 W Pico Blvd. Los Angeles 19	Cal
Comar Electric Co.	3349 W Addison St. Chicago 18	Ill
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	**Erith, Kent, England**	
Guardian Electric Mfg. Co.	1550 W Carroll Ave. Chicago 7	Ill
Johnson Service Co.	Milwaukee 1	Wis
Koontz- Wagner Electric Co.	N Michigan & Merion, South Bend	Ind
Laurence Co. Inc., R. G.	134 Summit St. Tenafly	NJ
Ledex, Inc.	123 Webster, Dayton 2	Ohio
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
N.S.F. Ltd.	31-32 Alfred Pl. London, W.C. 1, Eng	
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
Phillips Control Corp.	59 W Washington St. Joliet	Ill
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
Valcor Engineering Corp.	333 Carnegie Ave. Kenilworth	NJ
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

SOLVENT-EXTRACTION COLUMNS
See COLUMNS—SOLVENT-EXTRACTION

SOURCES—RADIOACTIVE
See *Also* ACCELERATORS
IRRADIATORS—MEDICAL, ISOTOPIC
IRRADIATORS—PROCESS, ISOTOPIC
ISOTOPES—RADIOACTIVE
GENERATORS—NEUTRON
SERVICES: RADIOACTIVE-SOURCE ENCAPSULATION

1. ALPHA
2. BETA
3. GAMMA
4. NEUTRON
5. STANDARD

Abbott Laboratories, 5	Box 1008, Oak Ridge	Tenn
Atomasters-Buntaine Corp. 1-2-3-4	111 W Jewel Ave. St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. 2-3, Adv Pg 214	**811 W Merrick Rd. Valley Stream**	**NY**
Atomic Energy of Canada Ltd. Commercial Products Div. 1-2-3-4	Box 93, Ottawa, Ont Canada	
ATOMIC RESEARCH LAB. 1-2-3, Adv Pg 61	**14725 Arminto Ave. Panorama City**	**Cal**
BAIRD-ATOMIC, INC. 1-2-3-4, Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Bleiwerk Goslar GmbH, 2-3-4-5	Goslar, Germany	
Brown Ind. Ltd., David, 2-3-4-5	Hampson St. Manchester, England	
Buchler & Co. 1-2-3-4-5	Frankfurter Str. 294 Braunschweig, Ger	
Budd Co. Instruments Div. 2-3	Box 245, Phoenixville	Pa
Canadian Radium & Uranium Corp. 1-2-3-4-5	630 5th Ave. New York 20	NY
Canadian Vickers Ltd. 2-3-4-5	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Curtis Nuclear Corp. 1-2-3-4-5	1645 W 135th St. Gardena	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 1-2-3-4-5, Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Gilardoni S.p.A. 1-2-3-4	Via Statale, Mandello Lario, Como	Italy
Hazleton- Nuclear Science Corp. 1-2-3-5	4062 Fabian Way, Palo Alto	Cal
Instruments, Inc.	Box 556, Tulsa	Okla
International Shielding Industries, 2-3-4-5	Foot of West St. Wilmington	Del
Isoserve Inc. 1-2-3-5	131 Portland St. Cambridge 39	Mass
ISOTOPE DEVELOPMENTS LTD. 2-3, Adv Pg 239	**Bath Rd. Reading, Berks, England**	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, 1-2-3-4-5, Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
JOHNSON & ASSOC. INC., WILLIAM B., 1-2-3-4, Adv Pg 255	**Box 415 Mountain Lakes**	**NJ**
Kahl Scientific Instrument Corp. 1-2-3-4-5	Box 1166 El Cajon	Cal
Knapp Mills Inc. 2-3-4-5	23-15 Borden Ave. LIC	NY
Miles Hivolt Ltd. 3-4	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Minnesota Mining & Mfg. Co. 1-2-3	900 Bush Ave. St Paul 6	Minn
New England Nuclear Corp. 2-3-5	575 Albany St. Boston	Mass
New Metals & Chemicals Ltd. 4	Chancery Ln. London, WC2, England	
Nuclear Aids Corp. 1-4	612 N Michigan Ave. Chicago 11	Ill
NUCLEAR-CHICAGO CORP. 1-2-3-4-5, Adv. Pgs. 80, 81	**345 E Howard Ave. Des Plaines**	**Ill**
Nuclear Consultants Corp. 1-2-3-4-5	9842 Manchester Rd. St. Louis 19	Mo
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. 1-2-5, Adv Pg 116	**2 Richwood Pl. Denville**	**NJ**
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC) 3-4, Adv Pg 15	**Apollo**	**Pa**
Nuclear Research Corp. 3	Southampton	Pa
NUCLEAR SCIENCE & ENGINEERING CORP. 1-2-3-5, Adv Pg 216	**Box 10901, Pittsburgh 36**	**Pa**
NUCLEONIC CORP. OF AMERICA, 1-2-3-4-5, Adv Pg 232	**196 Degraw St. Brooklyn 31**	**NY**
Nydqvist & Holm Aktiebolag, 2-3-4-5	Trollhatten, Sweden	
Officine Ing. Demichelis & Co. 2-3-4-5	Via Bistolfi 31, Milan, Italy	
Ohmart Corp. 3	2236 Bogen St. Cincinnati 14	Ohio
PACIFIC COAST ENGINEERING CO. 2-3-4-5, Adv Pg 52	**PO Drawer E, Alamedo**	**Cal**
Patterson Moos Research Div. Leesona Corp. 2	90-28 Van Wyck Expwy, Jamaica 18	NY
Peebles & Co Ltd, Bruce, Electronics Div 1-2-3	E Pilton, Edinburgh 5, Scotland	
Picker & Harting Vertrieb GMBH, 3-5	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. 1-2-3-5, Adv Pg 109	**25 S Broadway, White Plains**	**NY**
Radiation Applications, Inc. 2-3	36-40 37th St. Long Island City 1	NY
RADIATION COUNTER LABS. INC. 3-5, Adv Pg 39	**5122 W Grove St. Skokie**	**Ill**
RADIATION INSTRUMENT DEVELOPMENT LAB. 3, Adv. Pgs. 129, 276I	**61 E North Ave. Northlake**	**Ill**
RADIOCHEMICAL CENTRE, THE, 1-5, Adv Pg 224	**White Lion Rd. Amersham, Buckinghamshire, England**	
Radionics Inc. 2-3	Lafayette & Water Sts. Norristown	Pa
RADIUM CHEMICAL CO. INC. 1-2-3-4-5, Adv Pg 14	**161 E 42nd St. New York 17**	**NY**
Robatel & Mulatier, 2-3-4-5	59 A 69 Rue Baraban, Lyon, France	
St. John X-Ray Laboratory, 3	Califon	NJ
Technical Operations, Inc. 3	South Ave. Burlington	Mass
TERMINAL RADIO INTERNATIONAL LTD. 3-5, Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
Texas Instruments Incorporated, 1	6000 Lemmon Ave. Dallas 9	Tex
TRACERLAB INC. 1-2-3-5, Adv. Pgs. 49, 130, 276Y	**1601 Trapelo Rd. Waltham 54**	**Mass**
20th Century Electronics Ltd. 1	King Henry's Dr. New Addington, Croydon, Surrey, England	
Union Carbide Nuclear Co. Div. Union Carbide Corp. 2-3-4	Box X, Oak Ridge	Tenn
U. S. NUCLEAR CORP. 1-2-3-4-5, Adv Pg 262	**801 N Lake St. Box 208, Burbank**	**Cal**

U. S. RADIUM CORP. 1-2-3-4-5, Adv Pg 90	Box 246, Morristown	NJ
U.S. Radium Corp. (Europe) 1-2-3-4-5	36 Ave. Krieg, Geneva, Switzerland	
Uranium Instruments Co. 1-2-3-5	Box 1191, Grand Junction	Colo
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Western Radiation Lab. 2-3	1107 W 24 St. Los Angeles 7	Cal

SPECTROGRAPHIC ANALYSIS

See SERVICES: SPECTROGRAPHIC ANALYSIS

SPECTROGRAPHS—LIGHT

Applied Research Labs. Inc.	Box 1710, Glendale 5	Cal
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Central Scientific Co.	1700 Irving Park Rd. Chicago 13	Ill
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
Jarrell-Ash Co.	26 Farwell St. Newtonville 60	Mass
M.B.L.E. Adv. Pgs. 299, 276V	80 Rue des Deux Gares, Brussels 7, Belg	
National Spectrographic Lab. Inc.	6300 Euclid Ave. Cleveland 3	Ohio
NUCLIDE ANALYSIS ASSOCIATES, Adv Pg 6	146 N Atherton St. State College	Pa
Prazisionsmessgerate RSV	13b Hechendorf/Pilsensee, Germany	
WELCH MFG. CO., W.M. Adv Pg 214	1515 Sedgwick St. Chicago 10	Ill
Will Corp.	Box 1050, Rochester 3	NY

SPECTROMETERS—ALPHA & BETA RAY, MAGNETIC

Biddle Co., James G.	1316 Arch St. Philadelphia 7	Pa
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
HAMMER ELECTRONICS CO. Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
HIGH VOLTAGE ENGINEERING CORP. Adv Pg 146	5 Bedford St. Burlington	Mass
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
LKB-Produkter FAB	Box 12220, Stockholm 12, Sweden	
MEILLON, INC., GEORGE T. Adv Pg 252	132 Nassau St. New York 38	NY
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Walsh Associates, Charles	Box 244, Deerfield	Ill

SPECTROMETERS—MASS

A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
American Electronics Inc. Nuclear Div.	9459 W Jefferson Blvd. Culver City	Cal
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bendix Corp. Cincinnati Div.	3130 Wasson Rd. Cincnti 8	Ohio
Biddle Co., James G.	1316 Arch St. Philadelphia 7	Pa
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Bonney-Floyd Co.	611 Marion Rd. Columbus 7	Ohio
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Gamma Industrie	52 Rue de Dunkerque, Paris 9, France	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
HIGH VOLTAGE ENGINEERING CORP. Adv Pg 146	5 Bedford St. Burlington	Mass
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
JOHNSTON LABS. INC., WILLIAM H. Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
NUCLIDE ANALYSIS ASSOCIATES, Adv Pg 6	146 N Atherton St. State College	Pa
Process & Instruments	15 Stone Ave. Brooklyn 33	NY
THOMSON-HOUSTON (CIE. FRANCAISE), Adv Pg 276B	173 Blvd. Haussman, Paris 8, France	
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	

SPECTROMETERS—NUCLEAR-MAGNETIC RESONANCE

A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
HIGH VOLTAGE ENGINEERING CORP. Adv Pg 146	5 Bedford St. Burlington	Mass
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Ridgefield Instrument Group Schlumberger Corp.	Ridgefield	Conn
Varian Associates	611 Hansen Way, Palo Alto	Cal

SPECTROMETERS—SCINTILLATION

Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
Atomium Corp.	940 Main St. Waltham	Mass
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Biddle Co., James G.	1316 Arch St. Philadelphia 7	Pa
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Curtis Nuclear Corp.	1645 W 135th St. Gardena	Cal
Dynatron Radio Ltd.	St. Peter's Rd. Furze Platt, Maidenhead, Berks, Eng	
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
Franklin Systems, Inc.	2734 Hillsboro Rd. W Palm Beach	Fla
FRIESEKE & HOEPFNER GmbH, Adv Pg 276H	Erlangen-Bruck, Germany	
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
HAMMER ELECTRONICS CO. Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
ISOTOPE DEVELOPMENTS LTD. Adv Pg 239	Bath Rd. Reading, Berks, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
JOHNSTON LABS. INC., WILLIAM H., Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
M.B.L.E. Adv. Pgs. 299, 276V	80 Rue des Deux Gares, Brussels 7, Belg	
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80, 81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR CORP. OF AMERICA, INSTRUMENT & RESEARCH DIV. Adv Pg 116	2 Richwood Pl. Denville	NJ
NUCLEAR DATA, INC. Adv Pg 237	911 Regent St. Madison	Wis
NUCLEAR-ELECTRONICS CORP. Adv Pg 6	2925 N Broad St. Philadelphia 32	Pa
Nuclear Enterprises (GB) Ltd.	Bankhead Medway, Edinburgh 11, Scot	
NUCLEAR MEASUREMENTS CORP. Adv Pg 66	2460 N Arlington Ave. Indianapolis 18	Ind
NUCLEONIC CORP. OF AMERICA, Adv Pg 232	196 Dagrow St. Brooklyn 31	NY
PACKARD INSTRUMENT CO. INC. Adv Pg 227	Box 428, La Grange	Ill
Panax Equipment, Ltd.	Holmethorpe Ind. Est. Redhill, Surr. Eng	
Peebles & Co Ltd, Bruce, Electronics Div	E Pilton, Edinburgh 5, Scotland	
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	Eindhoven, The Netherlands	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
RADIATION COUNTER LABS. INC. Adv Pg 39	5122 W Grove St. Skokie	Ill
RADIATION INSTRUMENT DEVELOPMENT LAB. Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS. Adv Pg 70	Front & Cooper Sts. Camden 2	NJ
S. A. I. P.	38 Rue Gabriel Crie, Malakoff, Seine	Fr
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
SELO	Via Monfalcone, 12, Milano, Italy	
Solartron Electronic Group Ltd.	Victoria Rd. Farnborough, Hants, Eng	
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TECHNICAL MEASUREMENT CORP. Adv Pg 215	441 Washington Ave. North Haven	Conn
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TRACERLAB INC. Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal
Walsh Associates, Charles	Box 244, Deerfield	Ill
Zentralwerkstatt Gottingen GmbH	Box 624, Gottingen, W. Germany	

SPECTROPHOTOMETERS

Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
APPLIED PHYSICS CORP. Adv Pg 256	**2724 S Peck Rd. Monrovia**	**Cal**
Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	Mo
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Beckman Instruments, Inc. Scientific & Process Instruments Div.	2500 Fullerton Rd. Fullerton	Cal
Biddle Co., James G.	1316 Arch St. Philadelphia 7	Pa
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
Central Scientific Co.	1700 Irving Park Rd. Chicago 13	Ill
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
ELDORADO ELECTRONICS CO. Adv Pg 223	**2821 10th St. Berkeley 10**	**Cal**
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Ercona Corp. Scientific Instrument Div.	16 W 46th St. New York 36	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
Instrument Development Labs, Inc.	67 Mechanic St. Attleboro	Mass
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
National Instrument Labs, Inc.	842 Evarts St. NE, Washington	DC
National Spectrographic Lab. Inc.	6300 Euclid Ave. Cleveland 3	Ohio
Perkin-Elmer Corp. Instrument Div.	Main Ave. Norwalk	Conn
Prazisionsmessgerate RSV	13b Hechendorf/Pilsensee, Germany	
Process & Instruments	15 Stone Ave. Brooklyn 33	NY
Schueler & Co.	75 Cliff St. New York 38	NY
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Will Corp.	Box 1050, Rochester 3	NY

SPEED CONTROLS
See CONTROLS—SPEED

SPRINGS

Bergen Pipesupport Corp.	50 Church St. New York	NY
Marshall-Howlett Ltd.	44 Tower Hill, London EC3, England	
P I C Design Corp.	477 Atlantic Ave. E Rockaway	NY
Randolph Co.	1018 Rosine St. Houston 19	Tex
U. S. STEEL CORP. Adv. Pgs. 56, 57	**525 Wm. Penn Pl. Pittsburgh 30**	**Pa**

STAINLESS STEEL
See METALS, ALLOYS & COMPOUNDS
PIPING & TUBING

STATOR SHELLS
See SHELLS—STATOR

STEAM GENERATORS—POWER-PLANT
See Also HEAT EXCHANGERS

ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	**Box 1065, Schenectady 5**	**NY**
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St. New York 17**	**NY**
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Cleaver-Brooks Special Products Inc.	225 N Grand Ave. Waukesha	Wis
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Condenser Service & Engrg. Co. Inc.	150 Observer Hwy. Hoboken	NJ
CRANE CO. Adv. Pgs. 12, 13	**4100 S Kedzie Ave. Chicago 32**	**Ill**
FOSTER WHEELER CORP. Adv Pg 7	**666 5th Ave. New York 19**	**NY**
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can.	
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GRISCOM-RUSSELL CO. Adv Pg 217	**Massillon**	**Ohio**
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
Lasker Boiler & Engineering Corp.	3201 S Wolcott Ave. Chicago 8	Ill
Marshall-Howlett Ltd.	44 Tower Hill, London EC3, England	
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Orr & Sembower, Inc.	974 Morgantown Rd. Reading	Pa
PACIFIC COAST ENGINEERING CO. Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
PHOENIX-RHEINROHR AG, Adv Pg 276K	**August-Thyssen-Str. 1, Dusseldorf, Ger**	
Riley Stoker Corp.	9 Neponset St. Worcester 6	Mass
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St. Milwaukee 1	Wis
Societe Fives-Penhoet	340 rue Saint-Honore, Paris 1, France	
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Steinmuller GmbH, L. & C.	Gummersbach, Rheinland, Germany	
Sulzer Bros.	Winterthur, Switzerland	
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
Tube Reducing Corp.	520 Main Ave. Wallington	NJ
Vogt Machine Co., Henry	1000 W Ormsby St. Louisville	Ky
Westinghouse Elec Corp. Steam Div.	Lester	Pa
WORTHINGTON CORP. Adv. Pgs. 22, 23	**401 Worthington Ave. Harrison**	**NJ**

STEAM SEPARATORS—POWER-PLANT

BABCOCK & WILCOX CO. Adv Pg 1	**161 E 42 St. New York 17**	**NY**
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
Clark Manufacturing Co.	1830 E 38th St. Cleveland 14	Ohio
Cochrane Corp.	3214 17th St. Philadelphia 32	Pa
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Energy Control Co., Inc.	5 Beekman St. New York 38	NY
FOSTER WHEELER CORP. Adv Pg 7	**666 5th Ave. New York 19**	**NY**
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Johnson Corp.	809 Wood St, Three Rivers	Mich
PHOENIX-RHEINROHR AG, Adv Pg 276K	**August-Thyssen-Str. 1, Dusseldorf, Ger**	
Riley Stoker Corp.	9 Neponset St. Worcester 6	Mass
Societe Fives-Penhoet	340 rue Saint-Honore, Paris 1, France	
Squires Co., C. E.	18502 Syracuse Ave. Cleveland 10	Ohio
Steinmuller GmbH, L. & C.	Gummersbach, Rheinland, Germany	
Sulzer Bros.	Winterthur, Switzerland	
TOSI, S.p.A., FRANCO, Adv Pg 276T	**Legnano, Milan, Italy**	
Westinghouse Elec Corp. Steam Div.	Lester	Pa

STILLS—LABORATORY
See Also DISTILLATION EQUIPMENT

Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Sterilizer Co.	Box 620, Erie	Pa
Autoclave Engineers, Inc.	2930 W 22 St. Erie	Pa
BARNSTEAD STILL & STERILIZER CO. Adv Pg 44	**84 Lanesville Terr. Boston 31**	**Mass**
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Cleaver-Brooks Special Products Inc.	225 N Grand Ave. Waukesha	Wis
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Manesty Machines Ltd.	Evans Rd. Liverpool 24, England	
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
Packed Column Corp.	30 Church St. New York 7	NY
Podbielniak Inc.	341 E Ohio St. Chicago 11	Ill
Powertron Ultrasonics Corp.	E Gate Blvd. Garden City	NY
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr. Bloomfield	NJ
STOKES CORP., F. J. Adv Pg 85	**5500 Tabor Rd. Philadelphia 20**	**Pa**
Thomas Co., Arthur H.	Vine St. at 3rd. Philadelphia 5	Pa
Will Corp.	Box 1050, Rochester 3	NY
Wilmad Glass Co.	Rt. 40 & Oak Rd. Buena	NJ

STIRRERS AND MIXERS

American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Autoclave Engineers, Inc.	2930 W 22 St. Erie	Pa
Central Scientific Co.	1700 Irving Park Rd. Chicago 13	Ill
Chicago Apparatus Co.	1735 N Ashland Ave. Chicago 22	Ill
Dorr-Oliver Inc.	77 Havemeyer Ln. Stamford	Conn
Eberbach Corp.	Box 1024, Ann Arbor	Mich
Farrel-Birmingham Co. Inc.	Ansonia	Conn
Fisher Scientific Co.	709 Forbes St. Pittsburgh 19	Pa
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
Gallenkamp & Co. Ltd., A.	Sun St. London, E. C. 2, England	
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Labline, Inc.	3070-82 W Grand Ave. Chicago 22	Ill
Mixing Equipment Co. Inc.	135 Mt. Read Blvd. Rochester 3	NY
PACIFIC COAST ENGINEERING CO. Adv Pg 52	**PO Drawer E, Alameda**	**Cal**
Plenty & Son Ltd. Eagle Iron Works	Newbury, Berks, England	
Schueler & Co.	75 Cliff St. New York 38	NY
Scientific Glass Apparatus Co., Inc.	100 Lakewood Terr. Bloomfield	NJ
Sticht Co. Inc., Herman H.	27 Park Pl. New York 7	NY
STOKES CORP., F. J. Adv Pg 85	**5500 Tabor Rd. Philadelphia 20**	**Pa**
Terriss-Consolidated Industries	22-24 Wooster St. New York 13	NY
Tri-R Instruments	144-13 Jamaica Ave. Jamaica 35	NY
Will Corp.	Box 1050, Rochester 3	NY

STRAINERS—STEAM

Aerogen Co. Ltd. Anstey Mill La. Wks.	Alton, Hampshire, England	

Airmatic Valve, Inc.	7313 Associate Ave. Cleveland 9	Ohio
Anderson Co., V. D., Div. Intl. Basic Economy Corp.	1935 W 96th St. Cleveland 2	Ohio
AUTOMATIC SWITCH CO. Adv Pg 87	56M Hanover Rd. Florham Park	NJ
Caird Ltd., Francis	Africa House, Kingsway, London WC 2, Eng	
Clark Manufacturing Co.	1830 E 38th St. Cleveland 14	Ohio
Dewrance & Co., Ltd.	Great Dover St, London SE1, England	
Mack Iron Works Co.	Warren & Water Sts. Sandusky	Ohio
Marsh Instrument Co. Div. Colo Oil & Gas Corp.	3501 Howard St. Skokie	Ill
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
Newark Wire Cloth Co.	351 Verona Ave. Newark 4	NJ
OPW-Jordan	6013 Wiehe Rd. Cincinnati 13	Ohio
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Watson Ltd., H. T.	Croft St. Widnes, Lanc. England	
Yarnall-Waring Co.	102 E Mermaid Ln. Phila 18	Pa

STRESS-ANALYSIS EQUIPMENT

ALLIED RESEARCH ASSOCIATES, INC. Adv Pg 107	43 Leon St. Boston 15	Mass
American Instrument Co. Inc.	8030 Georgia Ave. Silver Spring	Md
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Consolidated Western Steel Div. U. S. Steel Corp.	Box 2015, Term Ann, L A 54	Cal
Gordon Co., Claud S.	619 W 30 St. Chicago 16	Ill
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
St. John X-Ray Laboratory	Califon	NJ
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal

SUBCRITICAL ASSEMBLIES
See *Also* REACTORS

AEROJET-GENERAL NUCLEONICS, Adv Pg 119	Box 77, San Ramon	Cal
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	Charleroi, Belgium	
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
BELGONUCLEAIRE, Adv Pg 128	35 rue des Colonies, Bruxelles 1, Belgium	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Consolidated Western Steel Div. U. S. Steel Corp.	Box 2015, Term Ann, LA 54	Cal
Cook Electric Co. Nucledyne Div.	3412 River Rd. Franklin Park	Ill
CURTISS-WRIGHT CORP. PRINCETON DIV. Adv Pg 211	Box 110, Princeton	NJ
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
JOHNSON & ASSOC. INC., WILLIAM B., Adv Pg 255	Box 415 Mountain Lakes	NJ
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
Paraplegics Mfg. Co, Inc.	304 York Rd, Bensenville	Ill
REACTOR EXPERIMENTS, INC. Adv Pg 224	1485 Bayshore Blvd. San Francisco 24	Cal
TEXAS INSTRUMENTS INCORPORATED, M & C NUCLEAR INC. (a Subsidiary), Adv Pg 2	Box 898, Attleboro	Mass
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Universal Nuclear Corp.	178-03 Hillside Ave. Jamaica 32	NY
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
WESTINGHOUSE ELEC CORP. ATOMIC POWER DEPT. Adv. Pgs. 138, 139, 140	Forest Hills	Pa

SUPERHEATERS—POWER-PLANT
1. *COAL-FIRED*
2. *GAS-FIRED*
3. *OIL-FIRED*

Ayling Nuclear Equip. Co. Ltd. 2-3	Foundry Ln. Horsham, Sussex, England	
BABCOCK & WILCOX CO. 1-2-3, Adv Pg 1	161 E 42 St. New York 17	NY
Babcock & Wilcox Ltd. 1-2-3	209 Euston Rd, London NW 1, England	
Combustion Engineering, Inc. 1-2-3	200 Madison Ave. New York 16	NY
FOSTER WHEELER CORP. 1-2-3, Adv Pg 7	666 5th Ave. New York 19	NY
Foster Wheeler Ltd. 1-2-3	Box 430, St. Catharines, Ontario, Can	
Hitachi, Ltd. 1-3	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Lasker Boiler & Engineering Corp. 1-2-3	3201 S Wolcott Ave. Chicago 8	Ill
Riley Stoker Corp. 1-2-3	9 Neponset St. Worcester 6	Mass
Societe Fives-Penhoet, 1-2-3	340 rue Saint-Honore, Paris 1, France	
Steinmuller GmbH, L. & C. 1-2-3	Gummersbach, Rheinland, Germany	
Sulzer Bros. 1-2-3	Winterthur, Switzerland	
Thompson, Ltd., John	Wolverhampton, England	
TOKYO SHIBAURA ELECTRIC CO., LTD. 1-3, Adv Pg 276D	12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TOSI, S.p.A., FRANCO, 1-2-3, Adv Pg 276T	Legnano, Milan, Italy	

SURVEY INSTRUMENTS—RADIATION
See DOSIMETERS—RADIATION
MONITORS—RADIATION

SWAGING MACHINES
See *Under* FABRICATING EQUIPMENT

SWITCHES

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. Ltd.	33 Grosvenor Pl. London SW1, Eng	
Advanced Technology Labs.	369 Whisman Rd. Mountain View	Cal
Allen-Bradley Co.	136 W Greenfield Ave. Milwaukee 4	Wis
Allied Control Co. Inc.	2 E End Ave. New York 21	NY
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
Automatic Electric Sales Corp.	Northlake	Ill
AUTOMATIC SWITCH CO. Adv Pg 87	56M Hanover Rd. Florham Park	NJ
Beck's Inc.	298-300 E 5th St. St. Paul 1	Minn
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
Bird Electronic Corp.	1800 E 38th St. Cleveland 14	Ohio
CWC Equipment Ltd.	Kings Gr. Maidenhead, Berks, Eng	
Clark Controller Co.	1146 E 152 St. Cleveland 10	Ohio
Clarostat Mfg. Co. Inc.	Dover	NH
Cole Electric Co.	8439 Stellar Dr. Culver City	Cal
Comar Electric Co.	3349 W Addison St. Chicago 18	Ill
Consolidated Controls Corp.	14 Durant Ave. Bethel	Conn
Control Products, Inc.	280 Ridgedale Ave. E Hanover	NJ
Controls Co. of America	9555 Soreng Ave. Schiller Park	Ill
Cutler-Hammer, Inc.	412 N 12th St. Milwaukee 1	Wis
Daven Co.	530 W Mt. Pleasant Ave. Livingston	NJ
Dietz Co. Inc., Henry G.	12-16 Astoria Blvd. Long Island City 2	NY
Digitran Co. Div. Endevco Corp.	660 S Arroyo Pkwy. Pasadena	Cal
Ebert Electronics Corp.	212-26 Jamaica Ave. Queens Village 28	NY
Ericsson Telephones Ltd.	High Church St. New Basford, Nott. Eng	
General Communication Co.	677 Beacon St. Boston	Mass
General Controls Co.	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND, Adv Pg 276BB	Erith, Kent, England	
Goodrich Co., B. F.	500 S Main St. Akron	Ohio
Guardian Electric Mfg. Co.	1550 W Carroll Ave. Chicago 7	Ill
Hathaway Instruments, Inc.	5800 E Jewell Ave. Denver 22	Colo
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Instrument Development Labs, Inc.	67 Mechanic St. Attleboro	Mass
Jennings Radio Mfg. Corp.	970 McLaughlin Ave. San Jose 8	Cal
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Kahn & Company, Inc.	Box 516 Hartford 1	Conn
Kellogg Switchboard & Supply Co.	6650 S Cicero Ave. Chicago 38	Ill
Kulka Electric Corp.	633 S Fulton Ave. Mt. Vernon	NY
Leemath, Inc.	Oak Dr. Syosset	NY
Licon Div. Illinois Tool Works	6606 W Dakin St. Chicago 34	Ill
Micro Switch Div. Minneapolis-Honeywell Regulator Co.	Chicago & Spring Sts. Freeport	Ill
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Avas. Phila. 44	Pa
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
N.S.F. Ltd.	31-32 Alfred Pl. London, W.C. 1, Eng	
Network Industries Inc.	Box 397, Bayonne	NJ
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
Pollak Corp., Joseph	85 Freeport St. Boston 22	Mass
Pye & Co. Ltd., W. G.	York St. Cambridge, England	
RF Products Div. Amphenol-Borg	33 E Franklin, Danbury	Conn
Scott (Electronic Engrg.) Ltd., James	68 Brockville St. Glasgow E2, Scotland	
Technology Instrument Corp.	531 Main St. Acton	Mass
Telectro Industries Corp.	35-16 37th St. LIC 1	NY
Texas Instruments Incorporated	6000 Lemmon Ave. Dallas 9	Tex
Thermo Electric Co. Inc.	Saddle Brook	NJ
Tork Time Controls, Inc.	60 MacQuesten Pkwy Mt. Vernon	NY
Torsion Balance Co.	35 Monehgan St. Clifton	NJ
Unimax Switch Div. W. L. Maxson Corp.	Ives Rd. Wallingford	Conn
Westinghouse Elec Corp. Pwr Control & Comm Dept.	East Pittsburgh	Pa

TANKS—REACTOR
See CALANDRIAS—REACTOR
PRESSURIZERS—REACTOR
VESSELS—PRESSURE, REACTOR

TANKS—STORAGE
1. AQUEOUS, NONRADIOACTIVE
2. HEAVY-WATER
3. LIQUID-METAL
4. RADIOACTIVE-WASTE

Air Liquide 2	75 Quai d'Orsay, Paris, France	
American Agile Corp. 1	Box 168, Bedford	Ohio
AVERY & SAUL CO. 1-2-3-4, Adv Pg 8	**115 Rindge Ave. Cambridge**	**Mass**
Ayling Nuclear Equip, Co. Ltd. 1	Foundry Ln, Horsham, Sussex, England	
BALDWIN-LIMA-HAMILTON CORP. 1-2-3-4, Adv Pg 103	**Dept H B, Philadelphia 42**	**Pa**
Bethlehem Steel Corp. 1	701 E 3rd St, Bethlehem	Pa
Bio-Rad Laboratories, 2	1257 S 32nd St, Richmond	Cal
Bleiwerk Goslar GmbH, 2-4	Goslar, Germany	
Braun & Co., C. F. 3	1000 S Fremont Ave, Alhambra	Cal
Brown Ind. Ltd., David, 2-4	Hampson St, Manchester, England	
Canadian GE Co. Ltd. 2	107 Park St, Peterborough, Ont Can	
Canadian Vickers Ltd. 2-4	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Chicago Bridge & Iron Co. 1-2-4	332 S Michigan Ave, Chicago 4	Ill
Chiyoda Chemical Eng & Const Co Ltd 4	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Coastwise Marine Disposal Co. 4	Box 43556, Hyde Park Sta, L A 62	Cal
Cochran & Co. Annan, Ltd. 1-2	34 Victoria St, London SW1, England	
Combustion Engineering, Inc. 1-2-3-4	200 Madison Ave, New York 16	NY
Condenser Service & Engrg. Co. Inc. 1-2-3	150 Observer Hwy, Hoboken	NJ
Downington Iron Works, Inc. 1-4	Wallace Ave, Downington	Pa
Fraser & Co. Ltd., W. J. 1-4	Harold Hill, Romford, Essex, England	
GAAA, 3	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
GENERAL AMERICAN TRANSPORTATION CORP. 1, Adv Pg 58	**135 S LaSalle St. Chicago 3**	**Ill**
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO. 1-2-3-4, Adv Pg 106	**4809 Ted Ave. East Chicago**	**Ind**
Industrial Engineering Corp. 4	525 E Woodbine, Louisville	Ky
Interatom, GmbH, 1-4	Bensberg/Koeln, Postfach, Germany	
International Shielding Industries, 2-4	Foot of West St, Wilmington	Del
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA, 4, Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
Kaiser Fleetwings, Inc. 1-2-3	Bristol	Pa
Knapp Mills Inc. 2-4	23-15 Borden Ave, LIC	NY
Lasker Boiler & Engineering Corp 1-2-3-4	3201 S Wolcott Ave, Chicago 8	Ill
Lead Fabricators, Inc. 4	25 Belgrove Dr, Kearny	NJ
Leader Iron Works, Inc. 1-2-3-4	2110 N Jasper St, Decatur	Ill
Motherwell Bridge & Engrg. Co. Ltd. 1	Box 4, Motherwell, Scotland	
Nooter Corp. 1-2-3-4	1424 S 3rd St, St. Louis 66	Mo
Nydqvist & Holm Aktiebolag, 2-4	Trollhatten, Sweden	
Officine Ing. Demichelis & C. 2-4	Via Bistolfi 31, Milan, Italy	
Orenda Engines Ltd. 1-2	Box 4015, Term A, Toronto, Canada	
PACIFIC COAST ENGINEERING CO. 2-4, Adv Pg 52	**PO Drawer E, Alamada**	**Cal**
Pfaudler Co Div Pfaudler Permutit Inc 1-4	1000 West Ave, Rochester 3	NY
PHOENIX-RHEINROHR AG, 1-4, Adv Pg 276K	**August-Thyssen-Str. 1, Dusseldorf, Ger**	
PINTSCH BAMAG AG, 1-2-4, Adv Pg 276C	**Postfach 11, Butzbach, Germany**	
Pittsburgh-Des Moines Steel Co, 1-2-3-4	Neville Island, Pittsburgh 25	Pa
Radiation Products, Inc. 1-2-3-4	Ft. 40 Rd, Flushing 52	NY
Reetz Co., Robert C. 1	81 Montgomery St, Pawtucket	RI
RELIANCE INCORPORATED, 4, Adv Pg 261	**1210-1212 Adams Ave. Phila 24**	**Pa**
Robatel & Mulatier, 2-4	59 A 69 Rue Bareban, Lyon, France	
SAINT GOBAIN, 1-4, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Smith Corp., A. O., Atomic & Process Equip. Div. 4	3533 N 27 St, Milwaukee 1	Wis
Societe Fives-Penhoet, 1-2-3-4	340 rue Saint-Honore, Paris 1, France	
Stearns-Roger Mfg. Co. 1	Box 5888, Denver 17	Colo
Steel & Alloy Tank Co. 1-2-3-4	Ft. Bessemer St, Newark 5	NJ
Terriss-Consolidated Industries, 1-4	22-24 Wooster St, New York 13	NY
Thompson, Ltd., John	Wolverhampton, England	
United Aircraft Products, Inc. 1-2	Box 1035, Dayton 1	Ohio
Vickers-Armstrongs (S. Marston) Ltd. 4	Swindon, Wiltshire, England	
Westinghouse Elec Corp. Steam Div. 1-2-3-4	Lester	Pa
Willamette Iron & Steel Co. 1-2-4	280 NW Front Ave, Portland	Ore

TAPES—MAGNETIC-RECORDING
See Also RECORDERS—MAGNETIC-TAPE

Ampex Data Products Co Instrumentation-Computer Prods. Divs.	934 Charter St. Redwood City	Cal
Arnold Engineering Co.	Box G, Marengo	Ill
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Belock Instrument Corp.	112-03 14th Ave. College Point 56	NY
Bendix Corp.	1128 Fisher Bldg, Detroit 2	Mich
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
E. M. I.-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. Adv Pg 96	**Hayes, Middlesex, England**	
Electromechanical Products	Markham Rd, Agincourt, Ont. Can.	
Honeywell Controls, Ltd.	Vanderhoof Ave, Toronto, Ont Canada	
Honeywell Electronic Data Processing Div	60 Walnut St, Wellesley Hills 81	Mass
INTERTECHNIQUE S.A. Adv Pg 276S	**81 rue Escudier, Boulogne-Billancourt, Seine, France**	
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minnesota Mining & Mfg. Co.	900 Bush Ave, St. Paul 6	Minn
Philco Corp.	4700 Wissahickon Ave, Phila 44	Pa
RADIO CORP. OF AMERICA, ELECTRON TUBE DIV. Adv Pg 131	**415 S 5th St. Harrison**	**NJ**
Sensitised Coatings, Ltd.	42 Dingwall Rd. E Croydon, Surrey, Eng	
Stromberg-Carlson Div, Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**

TECHNICAL WRITING SERVICES
See SERVICES: TECHNICAL WRITING

TELEMETERING SYSTEMS

AEG, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A.E.I. Ltd.	33 Grosvenor Pl, London SW1, Eng	
Airpax Electronics Inc.	Box 8488, Fort Lauderdale	Fla
American Bosch Arma Corp.	320 Fulton Ave, Hempstead	NY
Autocon Ind. Inc. Div. Automatic Control Co.	995 University Ave, St. Paul 4E	Minn
B-I-F Industries, Inc.	530-D Harris Ave, Providence 1	RI
Bailey Meter Co.	29801 Euclid Ave, Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W, Montreal, Que Can	
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Beckman Instruments, Inc, Systems Div.	325 N Muller Ave, Anaheim	Cal
Beck's Inc.	298-300 E 5th St, St. Paul 1	Minn
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Daystrom Inc. Control Systems Div.	4455 Miramar Rd. LaJolla	Cal
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave, Newark 12	NJ
E. M. I. ELECTRONICS LTD. Adv Pg 96	**Hayes, Middlesex, England**	
Electro-Mechanical Research, Inc.	Box 3041, Sarasota	Fla
Electroflo Meters Co, Ltd.	Abbey Rd, Park Royal, NW 10, London	Eng
Electromechanical Products	Markham Rd, Agincourt, Ont. Can.	
Electronic Engineering Co. of Cal	1601 E Chestnut St, Santa Ana	Cal
Electronic Systems Development Corp.	1484 E Main St, Ventura	Cal
Epsco, Inc.	275 Massachusetts Ave, Cambridge 39	Mass
Ferranti-Packard Electric Ltd	Industry St, Toronto 15, Ontario, Canada	
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Glenco Corp.	212 Durham Ave. Metuchen	NJ
Hallamore Electronics Div.	714 Brookhurst, Anaheim	Cal
Honeywell Controls, Ltd.	Vanderhoof Ave, Toronto, Ont Canada	
Instruments for Industry, Inc.	99 New South Rd, Hicksville	NY
Interstate Electronics Corp.	707 E Vermont Ave, Anaheim	Cal
Land Air Inc.	7444 W Wilson Ave, Chicago 31	Ill
LEACH CORP. Adv Pg 253	**18435 Susana Rd. Compton**	**Cal**
Litton Industries	336 N Foothill Rd, Beverly Hills	Cal
Lockhead Aircraft Corp.	Box 551 Burbank	Cal
Midwestern Instruments	41st & Sheridan Rd. Box 7509, Tulsa 18	Okla
Minn-Honeywell Reg Co, Con Dev Div.	2753 4th Ave, S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Officine Galileo	Via Carlo Bini 44, Florence, Italy	
Patterson Moos Research Div. Lessona Corp.	90-28 Van Wyck Expwy, Jamaica 18	NY
Philco Corp.	4700 Wissahickon Ave, Phila 44	Pa
Pye, Ltd.	St. Andrews Rd, Cambridge, England	
RS Electronics Corp.	435 Portage Ave, Palo Alto	Cal
Rank Cintel Ltd.	Worsley Bridge Rd, London, SE 26, Eng	
Raytheon Co. Missile Sys. Div.	520 Winter St, Waltham 54	Mass
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Streeter-Amet Co.	Grayslake	Ill
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Telechrome Mfg. Corp.	28 Ranick Dr, Amityville	NY

Telectro Industries Corp.	35-16 37th St, LIC 1	NY
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
Transonic, Inc.	808 16th St, Box 59, Bakersfield	Cal
Victor Adding Machine Co.	3900 N Rockwell St, Chicago 18	Ill
Waltham Electronics Corp.	751 Main St, Waltham	Mass
Westinghouse Elec Corp, Instrument Dept	Newark	NJ

TELETHERAPY EQUIPMENT—RADIATION
See IRRADIATORS—MEDICAL, ISOTOPIC

TELEVISION SYSTEMS—CLOSED-CIRCUIT

Admiral Corp.	3800 W Cortland St. Chicago 47	Ill
Airmec, Ltd.	High Wycombe, Bucks, England	
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	**Charleroi, Belgium**	
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. Friez Instrument Div.	1454 Taylor Ave, Baltimore 4	Md
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Blonder-Tongue Labs. Inc.	9 Alling St. Dept. NU, Newark 2	NJ
Brown & Associates, Inc., W. A.	Box 286, Indian River City	Fla
Colorado Research Corp.	Broomfield	Colo
COSMIC, INC. Adv Pg 133	**1028 Connecticut Ave. Washington 6**	**DC**
Dage Television Div. Thompson Ramo Wooldridge Inc.	W 10th St. Michigan City	Ind
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
DIAMOND POWER SPECIALTY CORP. Adv Pg 132	**Box 415 Lancaster**	**Ohio**
DuMont Labs., Allen B., Dv. Fairchild Cam & Inst Corp.	750 Bloomfield Ave. Clifton	NJ
E. M. L-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. Adv Pg 96	**Hayes, Middlesex, England**	
Ferranti-Packard Electric Ltd.	Industry St. Toronto 15, Ontario, Canada	
GPL Div. General Precision Inc.	63 Bedford Rd. Pleasantville	NY
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
General Electric Co. Commun. Prods. Dept.	Lynchburg	Va
Hallamore Electronics Div.	714 Brookhurst, Anaheim	Cal
Kin Tel Div. Cohu Electronics, Inc.	5725 Kearny Villa Rd. San Diego 12	Cal
LENOX INSTRUMENT CO. Adv Pg 54	**2010 Chancellor St. Philadelphia 3**	**Pa**
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Marconi's Wireless Telegraph Co., Ltd.	Chelmsford, Essex, England	
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	**Eindhoven, The Netherlands**	
Pye, Ltd.	St. Andrews Rd. Cambridge, England	
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS. Adv Pg 70	**Front & Cooper Sts. Camden 2**	**NJ**
Rank Cintel Ltd.	Worsley Bridge Rd. London, SE 26, Eng	
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Siemens & Halske AG	Rheinbrueckenstr, 50, Karlsruhe, Germany	
Spencer-Kennedy Labs. Inc.	1320 Soldiers Field Rd. Boston 35	Mass
Sylvania Home Electronics Div. Sylvania Elec Prods Inc.	700 Ellicott, Batavia	NY
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
THOMSON-HOUSTON (CIE. FRANCAISE), Adv Pg 276B	**173 Blvd. Haussman, Paris 8, France**	
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan**	

TEMPERATURE CONTROLS
See CONTROLS—TEMPERATURE
TRANSDUCERS—TEMPERATURE

TEST EQUIPMENT—NONDESTRUCTIVE
See *Also* SERVICES: TESTING, NONDESTRUCTIVE

A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Airmec, Ltd.	High Wycombe, Bucks, England	
American Electronics Inc. Nuclear Div.	9459 W Jefferson Blvd. Culver City	Cal
Arenberg Ultrasonic Lab. Inc.	94 Green St, Jamaica Plain 30	Mass
ASSOCIATED TESTING LABS. INC. Adv Pg 268	**134 Rte. 46, Wayne**	**NJ**
ATOMATION, INC. DIV. C. W. REED CO. INC. Adv Pg 233	**5959 S Hoover, L A 44**	**Cal**
Avco Research & Adv. Devel. Div.	201 Lowell St. Wilmington	Mass
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Barnes & Reinecke, Inc.	230 E Ohio St. Chicago 11	Ill
Barry Controls Inc.	700 Pleasant St. Watertown 72	Mass
Bausch & Lomb Inc.	85060 Bausch St. Rochester 2	NY
Beckman Instruments, Inc. Scientific & Process Instruments Div.	2500 Fullerton Rd. Fullerton	Cal
Biddle Co., James G.	1316 Arch St. Philadelphia 7	Pa
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
BRANSON INSTRUMENTS, INC. Adv Pg 235	**37 Brown House Rd. Stamford**	**Conn**
British Physical Labs.	Radlett, Herts, England	
Bryans Aeroquipment Ltd.	Willow Ln. Mitcham, Surrey, England	
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Burr-Brown Res. Corp.	Box 6444, Tucson	Ariz
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Canadian Radium & Uranium Corp.	630 5th Ave. New York 20	NY
Cawkell Research & Electronics Ltd.	Scotts Rd. Southall, Middlsx. Eng	
Cincinnati Sub Zero Products	3932 Reading Rd. Cincinnati	Ohio
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
Cubic Corp.	5575 Kearny Villa Rd. San Diego 11	Cal
CURTISS-WRIGHT CORP. PRINCETON DIV. Adv Pg 211	**Box 110, Princeton**	**NJ**
Dale Products, Inc.	Box 488, Columbus	Neb
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
Dice Co., J. W.	Englewood 41	NJ
Digital Equipment Corp.	Maynard	Mass
Dynage, Inc.	75 Laurel St. Hartford	Conn
E. M. O. Instrumentation, Ltd.	Western Rd. Bracknell, Berks, Eng	
Electro-Scientific Industries	7524 SW Macadam Ave. Portland	Ore
Elion Instruments Inc.	430 Buckley St. Bristol	Pa
Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Falk & Co. Ltd., M.	Emefco House, Reigate, Surrey, Eng	
Foster Transformers Ltd.	S Wimbledon Morden Rd. London, SW19, Eng	
General Radio Co.	West Concord	Mass
Genisco, Inc.	2233 Federal Ave. L A 64	Cal
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Hacker & Co. Inc., William J.	Box 646, W Caldwell	NJ
HARSHAW CHEMICAL CO. Adv Pg 78	**1945 E 97th St. Cleveland 6**	**Ohio**
Heath Co.	Benton Harbor	Mich
Hickok Electrical Instrument Co.	10501 Dupont Ave. Cleveland 8	Ohio
Vernon Hill & Co., E.	Box 189, Lake Geneva	Wis
Industrial Engineering Corp.	525 E Woodbine, Louisville	Ky
Industrial Test Equipment Co.	55 E 11th St. New York 3	NY
Inspection Services Ltd.	Oldfields Trading Est, Sutton By-pass, Sutton, Surrey, England	
International Equipment Co.	1284 Soldiers Field Rd. Boston 35	Mass
Jarrell-Ash Co.	26 Farwell St. Newtonville 60	Mass
Kahn & Company, Inc.	Box 516 Hartford 1	Conn
Kay Electric Co.	Maple Ave. Pine Brook	NJ
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
LEACH CORP. Adv Pg 253	**1835 Susana Rd. Compton**	**Cal**
Leemath, Inc.	Oak Dr, Syosset	NY
LOCKHEED NUCLEAR PRODUCTS, Adv. Pg. 3rd Cover	**3272 Peachtree Rd. NE, Atlanta 5**	**Ga**
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
Maritime Chemical & Repair Corp.	423 Hamilton Ave. Brooklyn 32	NY
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
MEILLON, INC., GEORGE T. Adv Pg 252	**132 Nassau St. New York 38**	**NY**
Menlo Research Laboratory	1627 Bay Rd. East Palo Alto	Cal
Meriam Instrument Co.	10920 Madison Ave. Cleveland 2	Ohio
Miles Electronics Ltd.	Shoreham Arpt. Shoreham, Sussex, Eng	
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Mitchell Radiation Products Corp.	E Washington St. Norristown	Pa
Modern Lab. Equipment Co., Inc.	1811 1st Ave. New York 28	NY
Muirhead Instruments Inc.	441 Lexington Ave. New York 17	NY
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
New Electronic Products Ltd.	360 Kennington Rd. London, SE11, Eng	
NUCLEAR ENTERPRISES LTD. Adv Pg 258	**550 Berry St. Winnipeg 12, Manitoba**	
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15 Apollo		**Pa**
Nuclear Research Corp.	Southampton	Pa
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Pantak Ltd.	Vale Rd. Windsor, Berks, England	
Peschel Electronics, Inc.	RFD 1, Patterson	NY
Philips Electronic Instruments	750 S Fulton Ave. Mt. Vernon	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. Adv Pg 267	**Eindhoven, The Netherlands**	
Powertron Ultrasonics Corp.	E Gate Blvd, Garden City	NY
Precision Apparatus Co. Inc.	70-31 84th St. Glendale 27	NY
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
RADIUM CHEMICAL CO. INC. Adv Pg 14	**161 E 42nd St. New York 17**	**NY**
Rousseau Controls Ltd.	640 Decourcelle St. Montreal, Que. Can	
St. John X-Ray Laboratory	Califon	NJ
Sarnia Inspection Co.	246 Tecumseh St. Sarnia, Ontario, Can	
Servonuclear Corp.	28-21 Astoria Blvd. Long Island City	NY
Telechrome Mfg. Corp.	28 Ranick Dr. Amityville	NY
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
Teleweld Inc.	11535 Franklin St. Franklin Park	Ill

Texas Instruments Incorporated, Geosciences & Instrumentation Div.	3609 Buffalo Speedway, Houston 6	Tex
Thompson & Co., John I.	1118-22nd St. NW, Washington 7	DC
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Trio Laboratories, Inc.	Plainview	NY
TURCO PRODUCTS, INC. Adv Pg 260	Box 1055, Wilmington	Cal
Unit Process Assemblies	53-15 37th Ave. Woodside 77	NY
United Aircraft Products, Inc.	Box 1035, Dayton 1	Ohio
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
United Mfg. Div. W. L. Maxson Corp.	41 Haig St. Hamden 14	Conn
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St. Cambridge, Eng	
Varian Associates	611 Hansen Way, Palo Alto	Cal
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Waltham Electronics Corp.	751 Main St. Waltham	Mass
Webber Mfg. Co. Inc.	Box 217, Indianapolis 6	Ind
Wheeler Mfg. Co. C. H.	1850 Sedgley Ave. Philadelphia 32	Pa
Wheeler Electronic Corp.	150 E Aurora St. Waterbury 20	Conn
Zenith Radio Research Corp.	4040 Campbell Ave. Menlo Park	Cal

TEST LOOPS
See LOOPS—TEST

TESTING—ENVIRONMENTAL
See SERVICES: TESTING, ENVIRONMENTAL

TESTING—NONDESTRUCTIVE
See SERVICES: TESTING, NONDESTRUCTIVE

TESTING—POSTIRRADIATION
See SERVICES: TESTING, POSTIRRADIATION

TETRAFLUOROETHYLENE RODS, SHEETS, TUBES
See Also PIPING & TUBING PLASTICS

Allied Engineering & Production Corp.	2421 Blanding Ave. Alameda	Cal
Allied Plastics Supply Corp.	75 Cliff St. New York 38	NY
Andrew Co., Otis	231 W Court St. Cincinnati 2	Ohio
Armstrong Cork Co.	Lancaster	Pa
Auburn Mfg. Co.	500 Stack St. Middletown	Conn
Bios Laboratories, Inc.	17 W 60th St. New York 23	NY
Cadillac Plastic & Chemical Co.	15111 2nd Ave. Detroit 3	Mich
Continental-Diamond Fibre Corp.	Newark	Del
Emerson Plastics Corp.	1383 Seabury Ave. Bronx 61	NY
Garlock, Inc. Electronic Prods.	600 N 10th St. Camden	NJ
Johns-Manville	22 E 40th St. New York 16	NY
Minnesota Mining & Mfg. Co.	900 Bush Ave. St. Paul 6	Minn
Polymer Corp.	2120 Fairmont Ave. Reading	Pa
Polypenco Ltd.	68-70 Tewin Rd. Welwyn Gdn. City, Herts, England	
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
Raybestos-Manhattan, Inc.	Arnold & Stiegel Sts. Manheim	Pa
Resistoflex Corp.	Woodland Rd. Roseland	NJ
Shamban & Co., W. S.	11617 W Jefferson Blvd. Culver City	Cal
Sparta Mfg Co Div U.S. Ceramic Tile Co	Dover	Ohio
Will Corp.	Box 1050, Rochester 3	NY

THERMIONIC MATERIALS

Atomics International Div. NAA	Box 309, Canoga Park	Cal
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
Kawecki Chemical Co. Inc.	220 E 42nd St. New York	NY
Patterson Moos Research Div. Leesona Corp.	90-28 Van Wyck Expwy. Jamaica 18	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	

THERMISTORS

Aero Research Instrument Co. Inc.	315 N Aberdeen St. Chicago 7	Ill
Atkins Technical, Inc.	1276 W 3 St. Cleveland 13	Ohio
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Fenwal Inc.	Pleasant St. Ashland	Mass
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
General Electric Co. Metallurgical Prods Dept.	11139 E 8 Mile Blvd. Detroit 32	Mich
Glenco Corp.	212 Durham Ave. Metuchen	NJ
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Keystone Carbon Co. Resistor Div.	St. Marys	Pa
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
Podbielniak Inc.	341 E Ohio St. Chicago 11	Ill
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Victory Engineering Corp.	Box 373, Union	NJ
Walsco Electronics Mfg. Co. Div. Textron, Inc.	400 S Wyman St. Rockford	Ill
Will Corp.	Box 1050, Rochester 3	NY
Yellow Springs Instrument Co. Inc.	Box 106, Yellow Springs	Ohio

THERMOCOUPLES

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Advanced Technology Labs.	369 Whisman Rd. Mountain View	Cal
Aero Research Instrument Co. Inc.	315 N Aberdeen St. Chicago 7	Ill
American Thermo Electric Co.	1023 N Fuller Ave. Los Angeles 46	Cal
AMPEREX ELECTRONIC CORP. Adv Pg 145	230 Duffy Ave. Hicksville	NY
Atkins Technical, Inc.	1276 W 3 St. Cleveland 13	Ohio
Atlantic Pyrometers, Inc.	190 Warburton Ave. Hawthorne	NJ
Bailey Meter Co.	29801 Euclid Ave. Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St. W. Montreal, Que	Can
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St. Rockford	Ill
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
BRISTOL CO. Adv Pg 110	Box 1790 HBG, Waterbury 20	Conn
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Continental Sensing, Inc.	1950 N Ruby St. Melrose Park	Ill
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
Degussa	Frankfurt/Main, Germany	
Du-Co Ceramics Co.	Box 278, Saxonburg	Pa
DYNA EMPIRE, INC. Adv Pg 247	1075 Stewart Ave. Garden City	NY
Electroflo Meters Co. Ltd.	Abbey Rd. Park Royal, NW 10, London	Eng
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
Fenwal Inc.	Pleasant St. Ashland	Mass
Foster Instrument Co. Ltd.	Letchworth, Herts, England	
Foxboro Co.	38 Neponset Ave. Foxboro	Mass
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
General Controls Co.	801 Allen Ave. Glendale 1	Cal
Gordon Co., Claud S.	619 W 30 St. Chicago 16	Ill
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Harco Laboratories, Inc.	77 Olive St. New Haven	Conn
High Vacuum Equipment Corp.	2 Churchill Rd. Hingham	Mass
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Illinois Testing Labs. Inc.	420 N La Salle St. Chicago	Ill
Integra, Leeds & Northrup Ltd.	Broad St. Birmingham 15, England	
J-B-T Instruments, Inc.	133 Hamilton St. New Haven 8	Conn
Leeds & Northrup Co.	4936 Stenton Ave. Phila 44	Pa
Lewis Engineering Co.	339 Church St. Naugatuck	Conn
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Pacific Transducer Corp.	11836 SW Pico Blvd. Los Angeles 64	Cal
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Posen & Kline Tube Co., Inc.	Whitehall & Twnshp. Line Norristown	Pa
Pyro-Electric Inc.	Box 152, 552 Lincoln Ave. Winnetka	Ill
Pyrometer Instrument Co. Inc.	92 Portland Ave. Bergenfield	NJ
Revere Corp. of America	Wallingford	Conn
Siemens & Halske AG	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Stromberg-Carlson Div. Gen Dynamics Corp.	100 Carlson Rd. Rochester	NY
Tech Wire Associates, Inc.	Commercial Ave. Moonachie	NJ
Thermal Refractories Corp.	4501 Dell Ave. North Bergen	NJ
Thermo Electric Co. Inc.	Saddle Brook	NJ
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Trinity Equipment Corp.	Box 1172, Cortland	NY
Tuttle & Kift Div. Ferro Corp.	1823 N Monitor Ave. Chicago 39	Ill
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
West Instrument Corp.	4363 W Montrose Ave. Chicago 41	Ill
Western Gold & Platinum Co.	525 Harbor Blvd. Belmont	Cal

THERMOELECTRIC MATERIALS

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Aero Research Instrument Co. Inc.	315 N Aberdeen St. Chicago 7	Ill
AMPEREX ELECTRONIC CORP. Adv Pg 145	230 Duffy Ave. Hicksville	NY
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bishop & Co., J., Platinum Works	Malvern	Pa
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W. Montreal, Que	Can
Continental Sensing, Inc.	1950 N Ruby St. Melrose Park	Ill
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
Harco Laboratories, Inc.	77 Olive St. New Haven	Conn
Kawecki Chemical Co. Inc.	220 E 42nd St. New York	NY

Minnesota Mining & Mfg. Co.	900 Bush Ave, St. Paul 6	Minn
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
National Beryllia Corp.	4501 Dell Ave, North Bergen	NJ
Nuclear Metals, Inc.	Box 222 Concord	Mass
Ohio Semiconductors, Inc.	1205 Chesapeake Ave, Columbus 12	Ohio
Patterson Moos Research Div. Leesona Corp.	90-28 Van Wyck Expwy, Jamaica 18	NY
Research Chemicals Div. Nuclear Corp. of America	Box 431, Burbank	Cal
Semi-Alloys Inc.	550 S. Fulton Ave, Mt. Vernon	NY
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Tech Wire Associates, Inc.	Commercial Ave, Moonachie	NJ
Thermo Electric Co, Inc.	Saddle Brook	NJ
Tuttle & Kift Div. Ferro Corp.	1823 N Monitor Ave, Chicago 39	Ill
Uni-Met Research Div. L-M Mfg Co Inc	Coatesville	Pa
West Instrument Corp.	4363 W Monrose Ave, Chicago 41	Ill
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa

THERMOMETERS—BIMETALLIC

American Instrument Co, Inc.	8030 Georgia Ave, Silver Spring	Md
Daystrom, Inc. Weston Instruments Div.	614 Prelinghuysen Ave, Newark 12	NJ
Electric Autolite Co.	Toledo 1	Ohio
Gordon Co., Claud S.	619 W 30 St, Chicago 16	Ill
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Marsh Instrument Co. Div. Colo Oil & Gas Corp.	3501 Howard St, Skokie	Ill
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Nunberg Thermometer Co. Inc.	124 Livingston St. Brooklyn 1	NY
Pacific Transducer Corp.	11836 SW Pico Blvd, Los Angeles 64	Cal
Partlow Corp.	Dept. NBG-58 New Hartford	NY
Powers Regulator Co.	3400 Oakton St, Skokie	Ill
Rascher & Betzold, Inc.	730 N Franklin St, Chicago 10	Ill
Science Associates	194 Nassau St, Princeton	NJ
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Weksler Instruments Corp.	195 E Merrick Rd, Freeport	NY
Will Corp.	Box 1050, Rochester 3	NY

THERMOMETERS—RESISTANCE

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Advanced Instruments, Inc.	45N Kenneth St, Newton Highlands 61	Mass
Aero Research Instrument Co. Inc.	315 N Aberdeen St, Chicago 7	Ill
Aerotec Industries, Inc. Industrial Div.	2 Meadow St, South Norwalk	Conn
Atkins Technical, Inc.	1276 W 3 St, Cleveland 13	Ohio
Avien, Inc.	58-15 Northern Blvd, Woodside 77	NY
Bailey Meter Co.	29801 Euclid Ave, Wickliffe	Ohio
Bailey Meter Co. Ltd.	5010 St. Catherine St, W, Montreal, Que	Can
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St, Rockford	Ill
BRISTOL CO. Adv Pg 110	Box 1790 NBG, Waterbury 20	Conn
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl, London SW1,	Eng
Consolidated Controls Corp.	14 Durant Ave, Bethel	Conn
Daystrom, Inc. Weston Instruments Div.	614 Prelinghuysen Ave, Newark 12	NJ
Edison Ind., Thomas A., Instr. Div. McGraw-Edison Co.	40 Lakeside Ave, West Orange	NJ
Electroflo Meters Co, Ltd.	Abbey Rd, Park Royal, NW 10, London	Eng
Engelhard Industries, Inc.	113 Astor St, Newark 2	NJ
Fielden Electronics Ltd.	Paston Rd, Wythenshawe, Man 22,	Eng
Fisher Scientific Co.	709 Forbes St, Pittsburgh 19	Pa
Foster Instrument Co, Ltd.	Letchworth, Herts, England	
Foxboro Co.	38 Neponset Ave, Foxboro	Mass
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
HAGAN CHEMICALS & CONTROLS, INC. Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
Honeywell Controls, Ltd.	Vanderhoof Ave, Toronto, Ont Canada	
Illinois Testing Labs, Inc.	420 N La Salle St, Chicago	Ill
Kahl Scientific Instrument Corp.	Box 1166 El Cajon	Cal
Leeds & Northrup Co.	4936 Stenton Ave, Phila 44	Pa
Lewis Engineering Co.	339 Church St, Naugatuck	Conn
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave, S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Rosemount Engineering Co.	4900 W 78 St, Mnpls, 24	Minn
Ruge Associates, Inc., Arthur C.	21 Elm Ave, Hudson	NH
Science Associates	194 Nassau St, Princeton	NJ
Siemens & Halske AG	Rheinbrueckenstr, 50, Karlsruhe, Germany	
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd, Rochester	NY
Swartwout Div.-Crane Co.	Hooksett Ind. Park, Manchester	NH
Thermo Electric Co, Inc.	Saddle Brook	NJ
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Trans-Sonics, Inc.	Burlington	Mass
Tri-R Instruments	144-13 Jamaica Ave. Jamaica 35	NY
West Instrument Corp.	4363 W Monrose Ave, Chicago 41	Ill
Westinghouse Elec Corp. Instrument Dept	Newark	NJ
Will Corp.	Box 1050, Rochester 3	NY
Yellow Springs Instrument Co, Inc.	Box 106, Yellow Springs	Ohio

THERMONUCLEAR EQUIPMENT

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
Bailey Meter Co, Ltd.	5010 St, Catherine St, W, Montreal, Que	Can
Bletronics Labs, Inc.	Box 744, Sta, B, Montreal 2, P.Q.	Can
GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Adv. Pgs. 212, 276M	Box 608, San Diego 12	Cal
Hawker Siddeley Nuclear Power Co. Ltd.	Sutton Ln, Langley, Nr, Slough, Bucks	Eng
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	

THERMOPILES—NEUTRON-SENSITIVE

AMPEREX ELECTRONIC CORP. Adv Pg 145	230 Duffy Ave, Hicksville	NY
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
NUCLEAR-CHICAGO CORP. Adv. Pgs. 80,81	345 E Howard Ave. Des Plaines	Ill

THERMOSTATS
See Also CONTROLS—TEMPERATURE

A.E.I. LTD. INSTRUMENTATION DIV. Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Aerogen Co, Ltd, Anney Mill La, Wks.	Alton, Hampshire, England	
American Instrument Co, Inc.	8030 Georgia Ave, Silver Spring	Md
Barber-Colman Co. Wheelco Instruments Div.	1300 Rock St, Rockford	Ill
Burling Instrument Co. Inc.	16 River Rd. Chatham	NJ
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl, London SW1,	Eng
Control Products, Inc.	280 Ridgedale Ave. E Hanover	NJ
Controls Co. of America	9555 Soreng Ave. Schiller Park	Ill
Edison Ind., Thomas A., Instr. Div. McGraw-Edison Co.	40 Lakeside Ave, West Orange	NJ
Fenwal Inc.	Pleasant St, Ashland	Mass
Fielden Electronics Ltd.	Paston Rd. Wythenshawe, Man 22,	Eng
Garrett Corp.	9851 Sepulveda Blvd. L A 45	Cal
General Controls Co.	801 Allen Ave, Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
H-B Instrument Co.	American & Bristol Sts, Philadelphia 40	Pa
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
INTERTECHNIQUE S.A. Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
Johnson Service Co.	Milwaukee 1	Wis
Mercoid Corp.	4201 Belmont Ave. Chicago 41	Ill
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26,27,115	Wayne & Windrim Aves. Phila. 44	Pa
Modern Lab. Equipment Co., Inc.	1811 1st Ave, New York 28	NY
Partlow Corp.	Dept. NBG-58 New Hartford	NY
Powers Regulator Co.	3400 Oakton St, Skokie	Ill
Process Control Gear Ltd.	Lattimore Rd, St. Albans, Herts, England	
Robertshaw-Fulton Controls Co. Fulton Sylphon Div.	Box 400, Knoxville 1	Tenn
Stevens Mfg. Co. Inc.	PO Annex 1007, Mansfield	Ohio
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Ulanet Co, George	413 Market St, Newark 5	NJ
Yellow Springs Instrument Co, Inc.	Box 106, Yellow Springs	Ohio

THICKNESS GAGES
See GAGES—THICKNESS OR DENSITY, NONRADIOACTIVITY
GAGES—THICKNESS OR DENSITY, RADIOACTIVITY

THORIUM
See FUELS—REACTOR
METALS, ALLOYS & COMPOUNDS: THORIUM
SERVICES: THORIUM, CONVERSION

TIMERS
See Also CONTROLS—TIMING

Abrams Instrument Corp.	600 E Shiawassee St, Lansing	Mich
Alden Electronic & Impulse Recording Equip. Co.	Westboro	Mass
Allen-Bradley Co.	136 W Greenfield Ave, Milwaukee 4	Wis
ATOMATION, INC. DIV. C. W. REED CO. INC. Adv Pg 233	5939 S Hoover, L A 44	Cal

ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
ATOMIC DEVELOPMENT & MACHINE CORP.		
Adv Pg 128	15-04 130 St. College Point 56	NY
Automatic Timing & Controls, Inc.	King of Prussia	Pa
Autotron Inc.	3629 N Vermilion St, Danville	Ill
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bell Telephone Mfg Co. Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
Bulova Research & Development Labs Inc	62-10 Woodside Ave. Woodside 77	NY
Clark Controller Co.	1146 E 152 St. Cleveland 10	Ohio
Computer Equipment Corp.	1931 Pontius Ave. L A 25	Cal
Controls Co. of America	9555 Soreng Ave. Schiller Park	Ill
Cramer Controls Corp.	Centerbrook	Conn
DELTA DESIGN, INC. Adv Pg 225	7460 Girard Ave. La Jolla	Cal
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
Eagle Signal Co. Div. The Gamewell Co.	202 20th St. Moline	Ill
ELDORADO ELECTRONICS CO.		
Adv Pg 223	2821 10th St. Berkeley 10	Cal
Electromechanical Products	Markham Rd, Agincourt, Ont, Can.	
Electronic Engineering Co. of Cal.	1601 E Chestnut St, Santa Ana	Cal
Electronics Corp. of America	1 Memorial Dr. Cambridge 42	Mass
Farmer Electric Products Co. Inc.	2300 Washington St. Newton Lower Falls	Mass
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276H	Erlangen-Bruck, Germany	
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
General Controls Co.	801 Allen Ave, Glendale 1	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
HANNER ELECTRONICS CO.		
Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
Hermes Electronics Co.	75 Cambridge Pkwy. Cambridge 42	Mass
Industrial Timer Corp.	1407 McCarter Hwy. Newark 4	NJ
Interstate Electronics Corp.	707 E Vermont Ave. Anaheim	Cal
ISOTOPE DEVELOPMENTS LTD.		
Adv Pg 239	Beth Rd. Reading, Berks, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
J-B-T Instruments, Inc.	133 Hamilton St. New Haven 8	Conn
Jordan Electronics	Alhambra	Cal
Labline, Inc.	3070-82 W Grand Ave, Chicago 22	Ill
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
Land Air Inc.	7444 W Wilson Ave. Chicago 31	Ill
LEACH CORP. Adv Pg 253	18435 Susana Rd. Compton	Cal
LIEBEL-FLARSHEIM CO. DIV. RITTER CO. INC.		
Adv Pg 54	400 West Ave. Rochester	NY
LOCKHEED NUCLEAR PRODUCTS,		
Adv. Pg. 3rd Cover	3272 Peachtree Rd. NE, Atlanta 5	Ga
Mallory & Co., Inc, P. R.	3029 E Washington St, Indnpls. 6	Ind
Marsh Instrument Co. Div. Colo Oil & Gas Corp.	3501 Howard St. Skokie	Ill
Midwestern Instruments	41st & Sheridan Rd, Box 7509, Tulsa 18	Okla
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave, S, Mnpls 8	Minn
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Navigation Computer Corp.	1621 Snyder Ave. Philadelphia 45	Pa
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
NUCLEAR MATERIALS & EQUIP. CORP. (NUMEC), Adv Pg 15	Apollo	Pa
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St. Brooklyn 31	NY
Oster Mfg. Co., John, Avionic Div.	1 Main St. Racine	Wis
Panax Equipment, Ltd.	Holmethorpe Ind, Est, Redhill, Surr, Eng	
Paragon Electric Co.	1635 N 12 St, Two Rivers	Wis
Partlow Corp.	Dept. NBG-58 New Hartford	NY
Patterson Moos Research Div. Leesona Corp.	90-28 Van Wyck Expwy, Jamaica 18	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Racal Instruments Ltd.	Western Rd. Bracknell, Berks, England	
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Robinson & Co. Ltd., D.	717 London Rd. Hounslow, Middlex. Eng	
SELO	Via Monfalcone, 12, Milano, Italy	
SHARP LABORATORIES, INC.		
Adv Pg 248	Box 1302, La Jolla	Cal
Siemens-Reiniger-Werke AG,	Luipoldstr. 45, Erlangen, Germany	
Standard Scientific Supply Corp.	808 Broadway, New York 3	NY
Sticht Co, Inc., Herman H.	27 Park Pl, New York 7	NY
Technology Instrument Corp.	531 Main St. Acton	Mass
Tork Time Controls, Inc.	60 MacQuesten Pkwy Mt. Vernon	NY
Trott'Electronics, Inc.	412 Smith St, Rochester 8	NY
Ulanet Co. George	413 Market St. Newark 5	NJ
Victor Adding Machine Co.	3900 N Rockwell St. Chicago 18	Ill
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Weltronic Co.	19500 W 8 Mile Rd. Detroit 41	Mich
Westinghouse Elec Corp. Instrument Dept	Newark	NJ
Will Corp.	Box 1050, Rochester 3	NY
Wilson & Co., G. C.	1915 8th Ave. Huntington	W Va

TISSUE-EQUIVALENT MATERIALS

K-Plastix	55 Elmira St. San Francisco 24	Cal
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY

TONGS–HANDLING

Allied Engineering & Production Corp.	2421 Blanding Ave, Alameda	Cal
AMERAY CORP. Adv Pg 114	Route 46, Kenvil	NJ
Atomastem-Buntaine Corp.	111 W Jewel Ave, St. Louis 22	Mo
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
ATOMIC DEVELOPMENT & MACHINE CORP.		
Adv Pg 128	15-04 130 St. College Point 56	NY
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
Bodendieck Tool Co.	Rt. 48 N, Taylorville	Ill
Buchler & Co.	Frankfurter Str. 294 Braunschweig, Ger	
Carter & Viner	Cooden Sea Rd, Bexhill, Sussex, Eng	
CENTRAL RESEARCH LABS. INC.		
Adv. Pgs. 68, 69	Red Wing	Minn
Evans & Son (Portsmouth) Ltd., J., Marcyn Wks.	Goldsmith Ave, Portsmouth, Hants, Eng	
Fisher Scientific Co.	709 Forbes St, Pittsburgh 19	Pa
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
ISOTOPE DEVELOPMENTS LTD.		
Adv Pg 239	Beth Rd. Reading, Berks, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
JOHNSON & ASSOC. INC., WILLIAM B.,		
Adv Pg 255	Box 415 Mountain Lakes	NJ
LaPine & Co., Arthur S.	6001 S Knox Ave, Chicago 29	Ill
Nuclear Research Applications Ltd.	Bell St. Reigate, Surrey, England	
NUCLEONIC CORP. OF AMERICA,		
Adv Pg 232	196 Degraw St. Brooklyn 31	NY
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
Radiation Products, Inc.	Ft. 40 Rd, Flushing 52	NY
RAY-PROOF CORP. Adv Pg 276	863 Canal St. Stamford	Conn
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
SELO	Via Monfalcone, 12, Milano, Italy	
TECHNICAL ASSOCIATES, Adv Pg 41	140 W Providencia Ave. Burbank	Cal
TELEFLEX INC. Adv Pg 118	Church Rd. North Wales	Pa
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 76, 77	Beach St. Beverly	Mass
U. S. NUCLEAR CORP. Adv Pg 242	801 N Lake St. Box 208, Burbank	Cal
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Vogel & Cie, P.	Veyrier pres Geneve, Switzerland	

TRAFFIC & TRANSPORTATION

See SERVICES: TRAFFIC & TRANSPORTATION

TRAINING–NUCLEAR

See SERVICES: TRAINING, NUCLEAR

TRANSDUCERS

1. FLOW
2. PRESSURE
3. TEMPERATURE

AEG, 1-2-3, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A.E.I. LTD. INSTRUMENTATION DIV. 1-2-3,		
Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Advanced Technology Labs, 3	369 Whisman Rd, Mountain View	Cal
Aero Research Instrument Co. Inc. 3	315 N Aberdeen St. Chicago 7	Ill
Aerotec Industries, Inc, Industrial Div. 1-2-3	2 Meadow St. South Norwalk	Conn
Allegany Instrument Co. Inc. 2	1091 Wills Mountain, Cumberland	Md
Atkins Technical, Inc. 3	1276 W 3 St. Cleveland 13	Ohio
Atlantic Research Corp. 2	Alexandria	Va
Autocon Ind. Inc. Div. Automatic Control Co. 2	995 University Ave. St. Paul 4E	Minn
Automatic Timing & Controls, Inc. 1-2	King of Prussia	Pa
Avien, Inc. 1-2-3	58-15 Northern Blvd, Woodside 77	NY
B-I-F Industries, Inc. 1-2-3	530-D Harris Ave. Providence 1	RI
Bailey Meter Co. 1-2-3	29801 Euclid Ave. Wickliffe	Ohio
BALDWIN-LIMA-HAMILTON CORP. 1-2-3,		
Adv Pg 103	Dept H B, Philadelphia 42	Pa
Baldwin-Lima-Hamilton Corp. 1-2	42 4th Ave. Waltham 54	Mass
Barber-Colman Co, Wheelco Instruments Div. 3	1300 Rock St. Rockford	Ill
Barton Instrument Corp. 1	580 Monterey Pass Rd, Monterey Park	Cal
Beckman & Whitley, Inc. 3	993 E San Carlos Ave. San Carlos	Cal
Bendix-Pacific Div. Bendix Corp. 1-2-3	11600 Sherman Way, No. Hollywood	Cal
Bently Scientific Co. 2	2811 7th St. Berkeley 10	Cal
Borg-Warner Controls Div. Borg-Warner Corp. 1-2-3	3300 Newport Blvd. Santa Ana	Cal

Bourns, Inc. 2	Box 2112, Riverside	Cal
BRISTOL CO. 2-3, Adv Pg 110	**Box 1790 NBG, Waterbury 20**	**Conn**
Broadview Research Corp. 2	1811 Trousdale Dr. Burlingame	Cal
Bryans Aeroquipment Ltd. 2-3	Willow Ln. Mitcham, Surrey, England	
Bulova Research & Development Labs Inc 2	62-10 Woodside Ave. Woodside 77	NY
Cambridge Instrument Co., Ltd. 2-3	13 Grosvenor Pl. London SW1, Eng	
Chesapeake Instrument Corp. 2	Shadyside	Md
Collins Corp., G. L. 2	2820 E Hullett St. Long Beach 5	Cal
Consolidated Controls Corp. 1-2-3	14 Durant Ave. Bethel	Conn
Consolidated Electrodynamics Corp. 2	360 Sierra Madre Villa, Pasadena	Cal
Crescent Engrg. & Research Co. 1-2-3	5440 N Peck Rd. El Monte	Cal
Dewrance & Co., Ltd. 1-2-3	Great Dover St. London SE1, England	
Dietz Co. Inc., Henry G. 2	12-16 Astoria Blvd. Long Island City 2	NY
Dynisco, Inc. 1-2	42 Carleton St. Cambridge 42	Mass
Edison Ind., Thomas A., Instr. Div. McGraw-Edison Co. 2-3	40 Lakeside Ave. West Orange	NJ
Electro-Mechanical Research, Inc. 2	Box 3041. Sarasota	Fla
Electromechanical Products, 1-2-3	Markham Rd. Agincourt, Ont. Can.	
Endevco Corp. 2	161 E California Blvd. Pasadena	Cal
Fairchild Controls Corp. 2	225 Park Ave. Hicksville	NY
Fenwal Inc. 3	Pleasant St. Ashland	Mass
Fielden Electronics Ltd. 1-2-3	Paston Rd. Wythenshawe, Man 22, Eng	
Foxboro Co. 1-2-3	38 Neponset Ave. Foxboro	Mass
Garrett Corp. 2-3	9851 Sepulveda Blvd. L A 45	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 1-3, Adv. Pgs. 95, 97, 99, 101	**1 River Rd. Schenectady 5**	**NY**
Glenco Corp. 1-3	212 Durham Ave. Metuchen	NJ
HRB-Singer, Inc. 1-2	Circleville Rd. State College	Pa
HAGAN CHEMICALS & CONTROLS, INC. 1-2-3, Adv. Pgs. 120, 121	**Box 1346, Pittsburgh 30**	**Pa**
Hastings-Raydist, Inc. 1-2	Newcomb Ave. Hampton	Va
Hays Corp. 1-2-3	Michigan City 40	Ind
Honeywell Controls, Ltd. 1-2-3	Vanderhoof Ave. Toronto, Ont Canada	
Intercontinental Dynamics Corp. 2	170 Coolidge Ave. Englewood	NJ
International Resistance Co. 1-2-3	401 N Broad St. Philadelphia 8	Pa
Johnson Service Co. 3	Milwaukee 1	Wis
Leeds & Northrup Co. 3	4936 Stenton Ave. Phila 44	Pa
Lintronic Ltd. 1-2-3	47 CharingCross Rd. London, WC2, Eng	
Litton Industries, 2	336 N Foothill Rd. Beverly Hills	Cal
Metrix Instruments Ltd. 1	54 Victoria Rd. Surbiton, Surrey, England	
Minn-Honeywell Reg Co. Con Dev Div. 1-2	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, 1-2-3, Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group, 2-3	2600 Ridgway Rd. Minneapolis 13	Minn
Model Engineering & Mfg. Inc. 3	50 Frederick St. Huntington	Ind
Nanmac Corp. 3	Box 8. Indian Head	Md
National Instrument Labs. Inc. 1	842 Evarts St. NE. Washington	DC
New Electronic Products Ltd. 1-2	360 Kennington Rd. London, SE11, Eng	
Norair, Div. Northrop Corp. 3	1001 E Broadway, Hawthorne	Cal
Patterson Moos Research Div. Leesona Corp. 2-3	90-28 Van Wyck Expwy. Jamaica 18	NY
Photocon Research Products, 2	421 N Altadena Dr. Pasadena	Cal
PHYSICAL SCIENCES CORP. 1-2-3, Adv Pg 263	**389 N Fair Oaks, Pasadena**	**Cal**
Potter Aeronautical Corp. 1	Route #22, Union	NJ
Republic Flow Meter Co. 1-2-3	2260 Diversey Pkwy. Chicago 47	Ill
Revere Corp. of America, 1	Wallingford	Conn
Rosemount Engineering Co. 2-3	4900 W 78 St. Mnpls. 24	Minn
Ruge Associates, Inc., Arthur C. 3	21 Elm Ave. Hudson	NH
Schaevitz Engineering, 2	Rt. 130 & Schaevitz Blvd. Pennsauken	NJ
Servomechanisms Inc. 2-3	200 Aviation Blvd. El Segundo	Cal
Siemens & Halske AG, 1-2-3	Rheinbrueckenstr. 50, Karlsruhe, Germany	
Simplex Valve & Meter Co. 1-2-3	7 E Orange St. Lancaster	Pa
Southern Instruments, Ltd. 2	Frimley Rd. Camberley, Surrey, England	
Statham Instruments, Inc. 2	12401 W Olympic Blvd. LA 64	Cal
Stromberg-Carlson Div. Gen. Dynamics Corp. 1-2-3	100 Carlson Rd. Rochester	NY
Swartwout Div.-Crane Co. 1-2-3	Hooksett Ind. Park, Manchester	NH
Technology Instrument Corp. 1-2-3	531 Main St. Acton	Mass
Trans-Sonics, Inc. 1-2-3	Burlington	Mass
Ultradyne, Inc. 1-2	2622 San Mateo NE, Albuquerque	NM
VACUUM-ELECTRONIC CORP. Adv Pg 260	**Terminal Dr. Plainview**	**NY**
West Instrument Corp. 3	4363 W Montrose Ave. Chicago 41	Ill

TRANSDUCERS—ULTRASONIC

Acoustica Associates Inc.	5305 W 102 St. Los Angeles 45	Cal
Aloe Scientific Div. Brunswick-Balke-Collender Co.	6655 Kingsbury Blvd. St. Louis 13	Mo
Atlantic Research Corp.	Alexandria	Va
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way. No. Hollywood	Cal
CURTISS-WRIGHT CORP. PRINCETON DIV. Adv Pg 211	**Box 110, Princeton**	**NJ**
DYNA EMPIRE, INC. Adv Pg 247	**1075 Stewart Ave. Garden City**	**NY**
E. M. L.-Consor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
Electro-Ceramics, Inc.	2645 S 2 W, Salt Lake City 15	Utah
Electromechanical Products	Markham Rd. Agincourt, Ont. Can.	
Electronic Assistance Corp.	20 Bridge Ave. Red Bank	NJ
Electronic Research Associates, Inc.	67 Factory Pl. Cedar Grove	NJ
Elion Instruments Inc.	430 Buckley St. Bristol	Pa
Erie Resistor Corp.	644 W 12th St. Erie	Pa
Falk & Co. Ltd., M.	Emefco House, Reigate, Surrey, Eng	
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Glenco Corp.	212 Durham Ave. Metuchen	NJ
L'Electronique Appliquee	25 rue du Docteur Finlay, Paris 15, Fr	
Motorola, Inc. Military Electronics Div.	Scottsdale	Ariz
Narda Ultrasonics Corp.	625 Main St. Dept. NBG, Westbury	NY
National Ultrasonic Corp.	111 Montgomery Ave. Irvington 11	NJ
Pioneer Central Div. Bendix Corp.	Hickory Grove Rd. Davenport	Iowa
Powertron Ultrasonics Corp.	E Gate Blvd, Garden City	NY
Raytheon Co. Commer Appar. & Sys Div.	1415 Boston-Prov. Tnpk. Norwood	Mass
Sprague Electric Co.	Marshall St. North Adams	Mass
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
TURCO PRODUCTS, INC. Adv Pg 260	**Box 1055, Wilmington**	**Cal**
ULTRASONIC INDUSTRIES, INC Adv Pg 59	**141 Albertson Ave. Albertson**	**NY**
Union Ultra-Sonics Corp.	111 Penn St. Quincy 69	Mass
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa

TRANSFORMERS

1. *CONSTANT-VOLTAGE*
2. *DIFFERENTIAL*
3. *POWER*
4. *PULSE*
5. *VARIABLE*

AEG, 1-3-5, Adv Pg 276E	**Hochhaus, Frankfurt/Main, Germany**	
A. E. L. Ltd. 2-3-4	38 Grosvenor Pl. London SW1, England	
A.E.I. LTD. INSTRUMENTATION DIV. 1, Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Acme Electric Corp. 1-2-3-4-5	31 Water St. Cuba	NY
Advance Components Ltd. 1	Roebuck Rd. Hainault, Essex, England	
Airpax Electronics Inc. 3-4	Box 8488, Fort Lauderdale	Fla
Alsthom, Nuclear Div. 3	38, Ave. Kleber, Paris 16, France	
AMP Inc. Capitron Div. 3-4	155 Park St. Elizabethtown	Pa
Arnold Magnetics Corp. 1-2-3-4-5	6050 W Jefferson Blvd. L A 16	Cal
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 3, Adv Pg 276AA	**Charleroi, Belgium**	
Atlas Engineering Co. Inc. 1-2-3-4-5	176 Blue Hill Ave. Roxbury	Mass
Aveley Electric, Ltd. 3-4	S. Ockendon, Essex, England	
Axel Electronics, Inc. 4	134-20 Jamaica Ave. Jamaica 18	NY
Bourns, Inc. 2	Box 2112, Riverside	Cal
Brush Instruments Div. Clevite Corp. 2-5	37th & Perkins, Cleveland 14	Ohio
Bush Transformer Corp. 1-3-4	707 North St. Endicott	NY
Central Transformer Co. 1-3-4	900 W Jackson Blvd. Chicago 7	Ill
Collins Corp., G. L. 2	2820 E Hullett St. Long Beach 5	Cal
Columbia Technical Corp. 4	61-02 31 Ave Woodside 77	NY
Communication Accessories Co. 1-3-4	Lee's Summit	Mo
Crescent Engrg. & Research Co. 2	5440 N Peck Rd. El Monte	Cal
DEL ELECTRONICS CORP. 3, Adv Pg 268	**521 Homestead Ave. Mount Vernon**	**NY**
Djeco Div. Djordjevic Engrg. Co. 1-2-3-4-5	1933 N Damen, Chicago 47	Ill
ESC Electronics Corp.	534 Bergen Blvd. Palisades Park	NJ
EDGERTON, GERMESHAUSEN & GRIER, INC. 4 Adv Pg 251	**160 Brookline Ave. Boston 15**	**Mass**
ELCOR, INC. 3, Adv Pg 14	**1225 W Broad St. Falls Church**	**Va**
Electro Engineering Works, 3	401 Preda St. San Leandro	Cal
Electromechanical Products, 4	Markham Rd. Agincourt, Ont. Can	
Electronic Instruments Ltd. 1	Lower Mortlake Rd. Richmond, Surrey	Eng
Electronic Research Associates, Inc. 1-3	67 Factory Pl. Cedar Grove	NJ
English Electric Co. Ltd. 1-3-4	Eng. Elec. Hse. Strand, London WC2	Eng
Ferranti Electric, Inc. 3	30 Rockefeller Pl. New York 20	NY
Foster Transformers Ltd. 1-2-3-5	5 Wimbledon Morden Rd. London, SW19	Eng
Freed Transformer Co., Inc. 1-2-4	1718 Weirfield St. Brooklyn 27	NY
Fuji Electric Mfg. Co. Ltd. 3	2-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
General Controls Co. 3	801 Allen Ave. Glendale 1	Cal
GENERAL ELECTRIC CO. LTD. OF ENGLAND, 3, Adv Pg 276BB	**Erith, Kent, England**	
General Radio Co. 5	West Concord	Mass
Grand Transformers, Inc. 1-2-3-4	Marion & Beech Tree Sts. Grand Haven	Mich
Harvey Electronics Ltd. 3	275 Farnborough Rd. Farnboro, Hants	Eng
Hermaseal Co. Inc. 1-2-3-4-5	1101 Lafayette St. Elkhart	Ind
Hermetic Seal Transformer Co., Div. Dresser Industries, Inc. 1-2-3-4-5	555 N 5th St. Garland	Tex
Hevi-Duty Electric Co. Div. Basic Products Corp. 3-4	Box 563, Milwaukee 1	Wis
Hewlett-Packard Co. 4	1501 Page Mill Rd. Palo Alto	Cal
Hitachi, Ltd. 1-5	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Industrial Transformer Corp. 1-2-3-4-5	Gouldsboro	Pa
International Research Associates, 1-3-5	5438 W North Ave. Chicago 39	Ill
Johnson & Phillips Ltd. 3	Victoria Way, London SE7, England	
Keystone Products Co. 3-4	904-6 23rd St. Union City	NJ
Knopp, Inc. 2-3	1307 66 St. Oakland	Cal

Laboratory for Electronics Inc 1-2-3-4-5	1079 Commonwealth Ave. Boston	Mass
Levinthal Electronic Products, Inc. 3-4	3180 Hanover St. Palo Alto	Cal
Litton Industries, 1-2-3-4	336 N Foothill Rd, Beverly Hills	Cal
Magnatran, Inc. 3	248 Schuyler Ave, Kearny	NJ
Manson Laboratories, Inc. 4	375 Fairfield Ave, Stamford	Conn
Miles Hivolt Ltd. 1-3-4	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co, Boston Div. 2	40 Life St, Boston 35	Mass
Minn-Honeywell Military Prods Group, 2	2600 Ridgway Rd, Minneapolis 13	Minn
Mitchell Radiation Products Corp. 1	E Washington St, Norristown	Pa
Moloney Electric Co. 3-4	5390 Bircher Blvd, St. Louis 20	Mo
New York Transformer Co. Inc. 3-4-5	3rd Ave. Alpha	NJ
Norair, Div. Northrop Corp. 4	1001 E Broadway, Hawthorne	Cal
North Hills Electronics, Inc. 4	Alexander Pl, Glen Cove	NY
Nothelfer Winding Labs, 3-4	220 Ewingville Rd, Trenton 8	NJ
NUCLEAR ENTERPRISES LTD. 4, Adv Pg 258	550 Berry St. Winnipeg 12, Manitoba	
Oerlikon Engineering Co. 1-2-3-4-5	Zurich 50, Switzerland	
Ohmite Mfg. Co. 5	3601 Howard St, Skokie	Ill
PCA Electronics Inc, 4	16799 Schoenborn St, Sepulveda	Cal
Ortho Filter Corp. 1-2-3-4	7 Paterson St, Paterson 1	NJ
Pantak Ltd. 1	Vale Rd. Windsor, Berks, England	
Pennsylvania Transformer Div. McGraw-Edison Co. 1-3	Cannonsburg	Pa
Plessey Nucleonics Ltd. 4	Weedon Rd. Northampton, England	
Polyphase Instrument Co. 4	E 4th St. Bridgeport	Pa
Pulse Engineering, 4	560 Robert Ave. Redwood City	Cal
Raypar, Inc. 3	7800 W Addison St. Chicago 34	Ill
Raytheon Co. Commer Appar. & Sys Div. 1-2-3-4-5	1415 Boston-Prov. Tnpk. Norwood	Mass
Sangamo Electric Co. 3-4	11 & Converse Sts. Springfield	Ill
Schaevitz Engineering, 2-5	Rt. 130 & Schaevitz Blvd, Pennsauken	NJ
Servomechanisms Inc. 1-2-3	200 Aviation Blvd. El Segundo	Cal
Sola Electric Co. 1	Busse Rd. at Lunt, Elk Grove	Ill
Sprague Electric Co. 4	Marshall St. North Adams	Mass
Standard Telephones & Cables Ltd. 3	63 Aldwych, London WC2, England	
Sterling Transformer Corp. 1-2-3-4	510 Driggs Ave, Brooklyn 11	NY
Superior Electric Co., The, 5	83 Laurel St. Bristol	Conn
Swartwout Div.-Crane Co. 2	Hooksett Ind. Park, Manchester	NH
TERMINAL RADIO INTERNATIONAL LTD. 1-5, Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Thordarson-Meissner, 1-2-3-4-5	Mount Carmel	Ill
TOKYO SHIBAURA ELECTRIC CO., LTD. 1-3-4, Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Torwico Electronics, Inc. 3	1080 Morris Ave. Union	NJ
Trak Electronics Co Div CGS Labs Inc, 5	Wilton	Conn
Transformer Electronics Co. 3-4	Boulder Ind. Park, Boulder	Colo
Transformers, Inc. 3-4	200 Stage Rd. Vestal	NY
Transonic, Inc. 1-3-4	808 16th St. Box 59, Bakersfield	Cal
Tresco, Inc. 1-2-3-4-5	3824 Terrace St. Philadelphia 28	Pa
United Transformer Corp, 1-2-3-4-5	150 Varick St, New York	NY
Utrad, Inc. 1-2-3-4	305 N Briant St, Huntington	Ind
Valor Instruments, Inc. 3-4-5	13214 Crenshaw Blvd, Gardena	Cal
Varo Mfg. Co. Inc. 1-3-4-5	2201 Walnut St. Garland	Tex
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Wagner Electric Co, 3	6400 Plymouth, St. Louis 33	Mo
Westinghouse Electric Corp. 1-3-4-5	Box 2278, Pittsburgh 30	Pa
Wheeler Electronic Corp, 1-2-3-4-5	150 E Aurora St, Waterbury 20	Conn
Zenith Electric Co, Ltd, 3	Villiers Rd, London, NW2, England	

TRANSISTORS
See Also DIODES—SEMICONDUCTOR

AEG, Adv Pg 276E	Hochheus, Frankfurt/Main, Germany	
A. E. I. Ltd.	33 Grosvenor Pl. London SW1, England	
Acme Electric Corp.	31 Water St. Cuba	NY
Acoustica Associates Inc.	5305 W 102 St, Los Angeles 45	Cal
AMP Inc. Capitron Div.	155 Park St. Elizabethtown	Pa
Amplifier Corp. of America	396 Broadway New York 13	NY
Bell Telephone Mfg Co, Nuc Energy Dv.	Berkenrodelei 75, Antwerp, Belgium	
Bendix Corp. Semiconductor Prods.	Holmdel	NJ
CBS Electronics Div, CBS Inc, Semiconductor Oper.	900 Chelmsford St, Lowell	Mass
Clevite Transistor Products	241-257 Crescent St. Waltham 54	Mass
Comell-Dubilier Electronics Div, Fed. Pac. Elec. Co.	333 Hamilton Blvd, South Plainfield	NJ
Djeco Div, Djordjevic Engrg. Co.	1933 N Damen, Chicago 47	Ill
Electromechanical Products	Markham Rd, Agincourt, Ont, Can.	
Fairchild Semiconductor Corp.	545 Whisman Rd. Mountain View	Cal
Freed Transformer Co., Inc.	1718 Weirfield St. Brooklyn 27	NY
General Transistor Corp.	91-27 138th Pl, Jamaica 35	NY
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Hoffman Electronics Corp, Semiconductor Div.	930 Pitner Ave. Evanston	Ill
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Hughes Semiconductor Div.	500 Superior Ave, Newport Beach	Cal
Industrial Transformer Corp.	Gouldsboro	Pa
Industro Transistor Corp.	35-10 36th Ave, Long Island City 6	NY
La Radiotechnique	130, Av. Ledru-Rollin-Paris 11, France	
Minn-Honeywell Reg. Co, Con Dev Div.	2753 4th Ave. S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, Adv. Pgs. 26, 27, 115	Wayne & Windrim Aves. Phila. 44	Pa
Motorola Semiconductor Products Inc.	5005 E McDowell Rd, Phoenix	Ariz
Ortho Filter Corp.	7 Paterson St, Paterson 1	NJ
Pacific Semiconductors, Inc.	14520 S Aviation Blvd, Lawndale	Cal
Philco Corp.	4700 Wissahickon Ave. Phila 44	Pa
Philco Corp, Lansdale Tube Div.	Church Rd, Lansdale	Pa
Radio Corp. of America Semiconductor & Materials Div.	Box 591, Somerville	NJ
Raypar, Inc.	7800 W Addison St. Chicago 34	Ill
Raytheon Co. Semiconductor Div.	215 1st Ave, Needham Hgts.	Mass
Rheem Semiconductor Corp.	350 Ellis St, Mountain View	Cal
Silicon Transistor Corp.	150 Glen Cove Rd, Carle Place	NY
Sperry Semiconductor Div. Sperry Rand Corp.	Wilson Ave. South Norwalk	Conn
Sprague Electric Co.	Marshall St. North Adams	Mass
Standard Telephones & Cables Ltd.	63 Aldwych, London WC2, England	
Sterling Transformer Corp.	510 Driggs Ave, Brooklyn 11	NY
Sylvania Elec Prods Inc Semiconductor Div	100 Sylvan Rd. Woburn	Mass
TERMINAL RADIO INTERNATIONAL LTD. Adv. Pgs. 276-O-276R	240 W 17th St. New York 11	NY
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
Texas Instruments Incorporated, Semiconductor-Components Div.	Box 312, Dallas	Tex
THOMSON-HOUSTON (CIE. FRANCAISE), Adv Pg 276B	173 Blvd. Haussman, Paris 8, France	
Thordarson-Meissner	Mount Carmel	Ill
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
TRANSITRON ELECTRONIC CORP. Adv Pg 107	168 Albion St. Wakefield	Mass
United Transformer Corp.	150 Varick St, New York	NY
Valor Instruments, Inc.	13214 Crenshaw Blvd, Gardena	Cal
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa

TRAPS
1. AIR
2. LIQUID-METAL
3. STEAM

A. E. I. Ltd. 1	33 Grosvenor Pl. London SW1, England	
Aerogen Co. Ltd, Anstey Mill Ln, Wks. 3	Alton, Hampshire, England	
American Air Filter Co. 3	215 Central Ave, Louisville 8	Ky
Anderson Co., V. D., Div. Intl. Basic Economy Corp. 1-3	1935 W 96th St. Cleveland 2	Ohio
Atomics International Div. NAA, 2	Box 309, Canoga Park	Cal
BABCOCK & WILCOX CO. 2, Adv Pg 1	161 E 42 St. New York 17	NY
Biotronics Labs, Inc. 1-2	Box 744, Sta. B, Montreal 2, P.Q. Can	
Clark Manufacturing Co. 1-3	1830 E 38th St. Cleveland 14	Ohio
Cochrane Corp. 3	3214 17th St. Philadelphia 32	Pa
CRANE CO. 3, Adv. Pgs. 12, 13	4100 S Kedzie Ave. Chicago 32	Ill
Dewrance & Co., Ltd. 3	Great Dover St. London SE1, England	
Dunham-Bush, Inc. 3	179 South St. West Hartford 10	Conn
Farris Engineering Co. 3	400 Commercial Ave. Palisades Park	NJ
Gelpel Ltd., William, Vulcan Wks. 3	156/170 Bermondsey St. London, SE1, Eng	
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. 2, Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Grinnell Co. 1-3	260 W Exchange St. Providence 1	RI
International Pump & Machine Works, 2	81 Doras Ave, Livingston	NJ
Liquid Metals, Inc. 2	Box 2666, Westford	Mass
MSA Research Corp. 2	Callery	Pa
Marsh Instrument Co. Div. Colo Oil & Gas Corp. 3	3501 Howard St. Skokie	Ill
N. G. N. Electrical Ltd. 1	Ave. Parade, Accrington, Lanc. England	
Powers Regulator Co. 3	3400 Oakton St. Skokie	Ill
Societe Fives-Penhoet, 2	340 rue Saint-Honore, Paris 1, France	
Squires Co., C. E. 1-3	18502 Syracuse Ave. Cleveland 10	Ohio
Temperature Engineering Corp. 2	1200 Union Landing Rd, Riverton	NJ
Thompson, Ltd., John	Wolverhampton, England	
TOSI, S.p.A., FRANCO, 3, Adv Pg 276T	Legnano, Milan, Italy	
Trane Co. 3	LaCrosse	Wis
Ultek Corp. 1	920 Commercial St. Palo Alto	Cal
Velan Engineering Ltd. 3	2125 Ward Ave. St. Laurent, Montreal 9	Que
WESTINGHOUSE ELEC CORP. ATOMIC EQUIP. DEPT. 2, Adv. Pgs. 138, 139, 142, 143	Cheswick	Pa
Wilmad Glass Co. 1	Rt. 40 & Oak Rd, Buena	NJ
Yarnall-Waring Co. 3	102 E Mermaid Ln. Phila 18	Pa

TUBE FITTINGS

CRAWFORD FITTING CO. Adv Pg 9	884 E 140 St. Cleveland 10	Ohio
Crawford Fittings (Canada) Ltd.	605 Kent Ave. Niagara Falls, Ont Can	
Imperial Brass Mfg. Co.	6300 W Howard St. Chicago 48	Ill
Parker-Hannifin Corp.	Cleveland 12	Ohio
Weatherhead Co.	128 W Washington Blvd. Ft. Wayne	Ind

TUBES—ELECTRON
See Also DIGITAL INDICATING DEVICES

GEIGER-MULLER TUBES
PHOTOMULTIPLIER TUBES
SCALING TUBES—DECADE

1. BEAM-SWITCHING
2. CATHODE-RAY
3. COLD-CATHODE, SPECIAL-PURPOSE
4. ELECTROMETER
5. IGNITRON
6. MICROWAVE
7. PHOTOMULTIPLIER
8. POWER
9. RECEIVING
10. RECTIFYING
11. THYRATRON
12. VOLTAGE-REGULATING
13. X-RAY

AEG, 3-5-11-13, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A. E. L Ltd, 2-5-6-7-8-9-11-12	33 Grosvenor Pl, London SW1, England	
A.E.I. LTD. INSTRUMENTATION DIV. 10-13, Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Abtronics, Inc. 3	64 S. P St, Livermore	Cal
American Radio Co, Inc. 6	445 Park Ave, New York 22	NY
Amglo Corp. 3	4333 Ravenswood Ave, Chicago 13	Ill
AMPEREX ELECTRONIC CORP. 1-2-3-4-5-6-7-8-9-10-11-12-13, Adv Pg 145	230 Duffy Ave, Hicksville	NY
ANTON ELECTRONIC LABS. INC. 12, Adv Pg 261	1226-38 Flushing Ave, Brooklyn 37	NY
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 3, Adv Pg 276AA	Charleroi, Belgium	
Aveley Electric, Ltd, 2-7	5, Ockendon, Essex, England	
BAIRD-ATOMIC, INC. 1-2-3-7-12, Adv Pg 65	33 University Rd, Cambridge 38	Mass
Bart Mfg. Corp. 6	135 Manchester Pl, Newark 4	NJ
Bendix Corp. 3-6-8	1128 Fisher Bldg, Detroit 2	Mich
Biotronics Lab, Inc, 2-3-6	Box 744, Sta. B, Montreal 2, P.Q, Can	
Bomac Labs, Inc, 6	Salem Rd, Beverly	Mass
Burroughs Corp, Electronic Tube Div, 1-3	Box 1226, Plainfield	NJ
CBS Electronics, 2-3-8-9-10-11-12	100 Endicott St, Danvers	Mass
C B S LABORATORIES, 2-7, Adv Pg 117	High Ridge Rd, Stamford	Conn
Canadian Marconi Co. 6	2442 Trenton Ave, Montreal 16, Canada	
Canadian Westinghouse Co, Ltd, 2-4-5-6-8-9-10-11-12-13	Box 510, Hamilton, Ontario, Canada	
Central Electronic Mfrs. 6-8-10	2 Richwood Pl, Denville	NJ
Chase Bram & Copper Co, 6	236 Grand St, Waterbury	Conn
Cossor Instruments Ltd, 2	Highbury Gr, London N5, England	
Djeco Div, Djordjevic Engg, Co, 10	1933 N Damen, Chicago 47	Ill
DuMont Labs., Allen B., Dv, Fairchild Cam & Inst Corp. 2-6-7	750 Bloomfield Ave, Clifton	NJ
E. M. L-Cossor Electronics Ltd, 2-5-6-7-8-9-10-11-12	Box 525, Dartmouth, N.S. Canada	
E. M. I. ELECTRONICS LTD. 2-4-7-8-12, Adv Pg 96	Hayes, Middlesex, England	
EDGERTON, GERMESHAUSEN & GRIER, INC. 2-10-11-12, Adv Pg 251	160 Brookline Ave, Boston 15	Mass
Eitel-McCullough, Inc. 1-6-8-10	301 Industrial Way, San Carlos	Cal
Electro-Mechanical Research, Inc, 7	Box 3041, Sarasota	Fla
Electronic Tube Corp. 1-2-3	1200 E Mermaid Ln, Phila. 18	Pa
Ercona Corp Scientific Instrument Div 7-9	16 W 46th St, New York 36	NY
Ericsson Telephones Ltd, 3-12	High Church St, New Basford, Nott, Eng	
Ferranti Electric, Inc, 2-3-4-6-13	30 Rockefeller Pl, New York 20	NY
General Electric Co, Receiving Tube Div, 1-2-3-4-5-6-8-9-10-11-12-13	Owensboro	Ky
General Electrodynamics Corp. 2-7	4430 Forest Ln, Garland	Tex
Gilardoni S.p.A. 13	Via Statale, Mandello Lario, Como	Italy
Hitachi, Ltd. 5-13	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Hoffman Electron Tube Corp, 2-3-6-7-12	804 Salisbury Park Dr, Westbury	NY
Huggins Laboratories, Inc, 6	999 E Arques Ave, Sunnyvale	Cal
INTERTECHNIQUE S.A. 1, Adv Pg 276S	81 rue Escudier, Boulogne-Billancourt, Seine, France	
Jarrell-Ash Co. 13	26 Farwell St, Newtonville 60	Mass
Kemlite Laboratories, 3	1819 W Grand Ave, Chicago	Ill
Kobe Kogyo Corp, 1-2-3-4-6-8-9-12-13	1-5 Wadayama-Dori, Kobe, Japan	
La Radiotechnique, 1-2-3-4-5-6-7-8-9-10-11-12	130, Av. Ledru-Rollin-Paris 11, France	
Litton Industries, 1-2-3-6-8	336 N Foothill Rd, Beverly Hills	Cal
Machlett Laboratories, Inc, 2-6-8-10-13	1063 Hope St, Springdale	Conn
Mitchell Radiation Products Corp. 13	E Washington St, Norristown	Pa
National Beryllia Corp, 6	4501 Dell Ave, North Bergen	NJ
National Electronics, Inc, 5-10-11	628 North St, Geneva	Ill
National Union Electric Corp. Electronics Div. 2-3-12	Bloomington	Ill
Nihon-Musen, K. K. 6-10-13	930 Kamirenjaku, Mitaka, Tokyo, Jap	
Norair, Div, Northrop Corp, 5-6-11-13	1001 E Broadway, Hawthorne	Cal
Panax Equipment, Ltd, 7	Holmethorpe Ind, Est, Redhill, Surr, Eng	
Philco Corp, Lansdale Tube Div, 2-9-10-12	Church Rd, Lansdale	Pa
Philips Electronic Instruments, 13	750 S Fulton Ave, Mt, Vernon	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT. 1-7-13, Adv Pg 267	Eindhoven, The Netherlands	
Picker & Harting Vertrieb GMBH, 13	Espelkamp-Mittwald Krs, Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. 13, Adv Pg 109	25 S Broadway, White Plains	NY
Polarad Electronics Corp, 6	43-20 34th St, Long Island City 1	NY
RADIATION INSTRUMENT DEVELOPMENT LAB. 7, Adv. Pgs. 129, 276I	61 E North Ave, Northlake	Ill
Radiation Research Corp, 13	1114 1st Ave, New York	NY
RADIO CORP. OF AMERICA, ELECTRON TUBE DIV. 1-2-3-5-6-7-8-9-10-11-12, Adv Pg 131	415 S 5th St, Harrison	NJ
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS. 13, Adv Pg 70	Front & Cooper Sts, Camden 2	NJ
Rank Cintel Ltd. 2-7	Worsley Bridge Rd, London, SE 26, Eng	
Raytheon Co. Ind. Comps. Div. 2-3-4-8-9-10-11-12	55 Chapel St, Newton	Mass
Raytheon Co. Microwave & Power Tube Div. 6	Foundry Ave, Waltham	Mass
Resitron Laboratories, Inc, 2-8-9-10-13	2908 Nebraska Ave, Santa Monica	Cal
Servonuclear Corp, 7-9-10-12	28-21 Astoria Blvd, Long Island City	NY
Sperry Electronic Tube Div, Sperry Rand Corp. 6	Gainesville	Fla
Sperry Gyroscope Co, Div, Sperry Rand Corp. 6	Great Neck	NY
Standard Telephones & Cables Ltd, 3-6-8-9-10-11-12	63 Aldwych, London WC2, England	
Stewart Engineering Co. 8	467 Bean Creek Rd, Santa Cruz	Cal
Sylvania Electronic Tubes Div, Sylvania Elec Prods Inc. 2-3-5-6-9-10-11	Emporium	Pa
TERMINAL RADIO INTERNATIONAL LTD. 1-2-4-7-8-9-10-11-12, Adv. Pgs. 276-O-276R	240 W 17th St, New York 11	NY
THOMSON-HOUSTON (CIE. FRANCAISE), 5-6-8-10-11, Adv Pg 276B	173 Blvd. Haussman, Paris 8, France	
TOKYO SHIBAURA ELECTRIC CO., LTD. 1-13, Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Tung-Sol Electric Inc 2-5-8-9-10-11-12	1 Summer Ave. Newark 4	NJ
20th Century Electronics Ltd, 2-7	King Henry's Dr, New Addington, Croydon, Surrey, England	
Varian Associates, 6	611 Hansen Way, Palo Alto	Cal
Vickers-Armstrongs (S, Marston) Ltd, 13	Swindon, Wiltshire, England	
Waterman Products Co., Inc. 3	2445-63 Emerald St, Phila 25	Pa
Westinghouse Electric Corp, 2-5	Box 2278, Pittsburgh 30	Pa
WESTINGHOUSE ELECTRIC CORP. ELECTRONIC TUBE DIV. 1-2-3-5-6-7-8-10-11-12, Adv. Pgs. 82, 83, 138, 139	Box 284, Elmira	NY
Westinghouse Elec Corp, Pwr Control & Comm Dept, 5-11-13	East Pittsburgh	Pa
X-Ray Dept, General Electric Co, 10-13	4855 Electric Ave, Milwaukee	Wis
Zenith Radio Research Corp. 6-13	4040 Campbell Ave, Menlo Park	Cal

TUBULAR EXTRUSIONS

Aluminum Co. of America	1501 Alcoa Bldg, Pittsburgh 19	Pa
Kaiser Aluminum & Chemical Sales Inc.	1924 Broadway, Oakland	Cal
PRECISION EXTRUSIONS, INC. Adv Pg 248	720 E Green Ave, Benzonville	Ill
Reynolds Metals Co.	Box 2346, Richmond 18	W Va

TURBINES—GAS

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A. E. L Ltd.	33 Grosvenor Pl, London SW1, England	
Allen Sons & Co, Ltd., W. H., Queens Eng. Wks.	Bedford, England	
Allison Div, Gen. Motors Corp.	Box 894, Indianapolis	Ind
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
Canadian Westinghouse Co, Ltd.	Box 510, Hamilton, Ontario, Canada	
Clark Bros. Co.	Lincoln & 5th St, Olean	NY
Coppus Engineering Corp.	334 Park Ave. Worcester	Mass
English Electric Co, Ltd.	Eng, Elec, Hse, Strand, London WC2	Eng
Escher Wyss Ltd.	Zurich, Switzerland	
Fuji Electric Mfg. Co. Ltd.	2-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
Garrett Corp.	9851 Sepulveda Blvd, L A 45	Cal
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd, Schenectady 5	NY
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Interatom, GmbH	Bensberg/Koeln, Postfach, Germany	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, Adv Pg 124	23555 Euclid Ave, Cleveland 17	Ohio
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	12 Yuraku-cho 1-Chome, Chiyoda-ku, Tokyo, Japan	
Westinghouse Elec Corp, Steam Div.	Lester	Pa
WORTHINGTON CORP. Adv. Pgs. 22, 23	401 Worthington Ave, Harrison	NJ

TURBINES—STEAM

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A. E. L Ltd.	33 Grosvenor Pl, London SW1, England	
Allen Sons & Co, Ltd., W. H., Queens Eng. Wks.	Bedford, England	

ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Consolidated Engines & Machy Co. Ltd.	5645 Pare St. Mt. Royal, Montreal, Can	
Coppus Engineering Corp.	334 Park Ave. Worcester	Mass
De Laval Steam Turbine Co.	Trenton 2	NJ
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Escher Wyss Ltd.	Zurich, Switzerland	
Fuji Electric Mfg. Co. Ltd.	2-6 Marunouchi, Chiyoda-ku, Tokyo	Jap
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	Erith, Kent, England	
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Oerlikon Engineering Co.	Zurich 50, Switzerland	
Orenda Engines Ltd.	Box 4015, Term A, Toronto, Canada	
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP,		
Adv Pg 124	23555 Euclid Ave. Cleveland 17	Ohio
TOKYO SHIBAURA ELECTRIC CO., LTD.	12 Yuraku-cho 1-Chome, Chiyoda-ku,	
Adv Pg 276D	Tokyo, Japan	
Westinghouse Elec Corp. Steam Div.	Lester	Pa
WORTHINGTON CORP. Adv. Pgs. 22, 23	401 Worthington Ave. Harrison	NJ

ULTRASONIC EQUIPMENT
See *Also* INSPECTION EQUIPMENT
TRANSDUCERS—ULTRASONIC

Acoustica Associates Inc.	5305 W 102 St. Los Angeles 45	Cal
Advanced Instruments, Inc.	45N Kenneth St. Newton Highlands 61	Mass
Aeroprojects, Inc.	310 E Rosedale Ave. West Chester	Pa
Aircraft Porous Media, Inc.	Glen Cove	NY
Alcar Instruments	411 Robbins Ave. Trenton 8	NJ
Alden Electronic & Impulse Recording Equip. Co.	Westboro	Mass
Aloe Scientific Div. Brunswick-Balke-Collender Co.	5655 Kingsbury Blvd. St. Louis 13	Mo
American Bosch Arma Corp.	320 Fulton Ave. Hempstead	NY
American Time Products, Inc.	61-20 Woodside Ave. Woodside 77	NY
Arenberg Ultrasonic Lab. Inc.	94 Green St. Jamaica Plain 30	Mass
ATELIERS DE CONSTRUCTIONS ELECTRIQURS DE CHARLEROI,		
Adv Pg 276AA	Charleroi, Belgium	
ATOMIC ACCESSORIES, INC. Adv Pg 214	811 W Merrick Rd. Valley Stream	NY
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
Bendix-Pacific Div. Bendix Corp.	11600 Sherman Way, No. Hollywood	Cal
BRANSON INSTRUMENTS, INC.		
Adv Pg 235	37 Brown House Rd. Stamford	Conn
Burr-Brown Res. Corp.	Box 6444, Tucson	Ariz
Circo Ultrasonic Corp.	51 Terminal Ave. Clark	NJ
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 110, Princeton	NJ
Deltime, Inc.	139 Hoyt St. Mamaroneck	NY
Designers for Industry, Inc.	4241 Fulton Pkwy. Cleveland 9	Ohio
E. M. L.-Cossor Electronics Ltd.	Box 525, Dartmouth, N.S. Canada	
Electromechanical Products	Markham Rd. Agincourt, Ont. Can	
Electronic Assistance Corp.	20 Bridge Ave. Red Bank	NJ
Elion Instruments Inc.	430 Buckley St. Bristol	Pa
Falk & Co. Ltd., M.	Emefco House, Reigate, Surrey, Eng	
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Glenco Corp.	212 Durham Ave. Metuchen	NJ
HRB-Singer, Inc.	Circleville Rd. State College	Pa
HYDRO-HONE DIV. GEMAIR, INC.		
Adv Pg 126	11055 S Palmer Ave. South Gate	Cal
INSTRUMENTATION ASSOCIATES,		
Adv Pg 14	17 W 60 St. New York 23	NY
LaPine & Co., Arthur S.	6001 S Knox Ave. Chicago 29	Ill
Lintronic Ltd.	47 CharingCross Rd. London, WC2, Eng	
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Magnaflux Corp.	7328 W Lawrence, Chicago 31	Ill
Marshall-Howlett Ltd.	44 Tower Hill, London EC3, England	
Metrix Instruments Ltd.	54 Victoria Rd. Surbiton, Surrey, Eng	
Minn-Honeywell Military Prods Group	2600 Ridgway Rd. Minneapolis 13	Minn
Mullard Equipment Ltd.	Torrington Pl. London WC1, England	
Narda Ultrasonics Corp.	625 Main St. Dept. NBG, Westbury	NY
National Ultrasonic Corp.	111 Montgomery Ave. Irvington 11	NJ
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
Pioneer Central Div. Bendix Corp.	Hickory Grove Rd. Davenport	Iowa
Powertron Ultrasonics Corp.	E Gate Blvd. Garden City	NY
Raytheon Co. Commer Appar. & Sys Div.	1415 Boston-Prov. Tnpk. Norwood	Mass
Scott, Inc., H. H.	111 Powder Mill Rd. Mayard	Mass
Sheffield Corp. Sub. Bendix Corp.	721 Springfield St. Dayton 1	Ohio
Speary Products Co.	Shelter Rock Rd. Danbury	Conn
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Teleweld Inc.	11535 Franklin St. Franklin Park	Ill
Thomas Co., Arthur H.	Vine St. at 3rd Philadelphia 5	Pa
TOKYO SHIBAURA ELECTRIC CO., LTD.	12 Yuraku-cho 1-Chome, Chiyoda-Ku,	
Adv Pg 276D	Tokyo, Japan	
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Trott Electronics, Inc.	412 Smith St. Rochester 8	NY
TURCO PRODUCTS, INC. Adv Pg 260	Box 1055, Wilmington	Cal
ULTRASONIC INDUSTRIES, INC.		
Adv Pg 59	141 Albertson Ave. Albertson	NY
Union Ultra-Sonics Corp.	111 Penn St. Quincy 69	Mass
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa
Will Corp.	Box 1050, Rochester 3	NY

URANIUM
See FUELS—REACTOR
METALS, ALLOYS & COMPOUNDS: URANIUM
SERVICES: URANIUM CONVERSION

URINALYSIS
See SERVICES: URINALYSIS

VACUUM CLEANERS—INDUSTRIAL

Breuer Electric Mfg. Co.	5100 N Ravenswood Ave. Chicago 40	Ill
CAMBRIDGE FILTER CORP.		
Adv. Pgs. 50, 122	726 E Erie Blvd. Syracuse 1	NY
Filtronics Inc.	Box 200, Cowell	Cal
FINNELL SYSTEM INC. Adv Pg 250	500 East St. Elkhart	Ind
HILD FLOOR MACHINE CO. INC.		
Adv Pg 233	1217 W Washington Blvd. Chicago	Ill
Martindale Electric Co.	Box 617, Edgewater Br. Cleveland 7	Ohio
Multi-Clean Products, Inc.	2277 Ford Pkwy. St. Paul 16	Minn
Radiation Hazard Control Co.	Fort Atkinson	Wis
Tennant Co. G. H.	701 N Lilac Dr. Mnpls 22	Minn
U.S. Hoffman Machinery Corp.	103 4th Ave. New York 3	NY

VACUUM EQUIPMENT & ACCESSORIES
See *Also* CONTROLS—VACUUM
DETECTORS—LEAK
DRYERS—VACUUM
FURNACES—VACUUM
PUMPS—VACUUM
VALVES—VACUUM

A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Air-Shields, Inc.	Hatboro	Pa
Airmatic Systems Corp.	441 Market St. Saddle Brook	NJ
Airmatic Valve, Inc.	7313 Associate Ave. Cleveland 9	Ohio
ASSOCIATED TESTING LABS. INC.		
Adv Pg 268	134 Rte. 46, Wayne	NJ
Ayling Nuclear Equip. Co. Ltd.	Foundry Ln. Horsham, Sussex, England	
Beach-Russ Co.	420 Lexington Ave. New York 17	NY
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Bryans Aeroquipment Ltd.	Willow Ln. Mitcham, Surrey, England	
Central Scientific Co.	1700 Irving Park Rd. Chicago 13	Ill
Conoflow Corp.	2100 Arch St. Philadelphia 3	Pa
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Consolidated Vacuum Corp.	1775 Mt. Read Blvd. Rochester	NY
Cooper Co., D. C.	1467 S Michigan Ave. Chicago	Ill
DELTA DESIGN, INC. Adv Pg 225	7460 Girard Ave. La Jolla	Cal
DUBLIN INDUSTRIES, INC. Adv Pg 258	11824 Dublin Blvd. Hayward	Cal
Edwards High Vacuum Inc.	Cumberland Rd. Burlington, Ont Can	
Filtronics Inc.	Box 200, Cowell	Cal
Gelman Instrument Co.	106 N Main St. Chelsea	Mich
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Graham Mfg. Co., Inc.	170 Great Neck Rd. Great Neck	NY
GRAVER TANK & MFG. CO. DIV. UNION TANK CAR CO.		
Adv Pg 106	4809 Tod Ave. East Chicago	Ind
Hastings-Raydist, Inc.	Newcomb Ave. Hampton	Va
High Vacuum Equipment Corp.	2 Churchill Rd. Hingham	Mass
Intercontinental Dynamics Corp.	170 Coolidge Ave. Englewood	NJ
International Pump & Machine Works	81 Dorse Ave. Livingston	NJ
Ipsen Industries, Inc.	Box 500, Rockford	Ill
Kinney Vacuum Div. The N. Y. Air Brake Co.	3529 Washington St. Boston 30	Mass
Leybold-Hochvakuum-Anlagen GmbH	Bonner Str. 504, Koln-Bayenthal, Ger	
Litton Engineering Labs.	Box 949, Grass Valley	Cal
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
Multi-Clean Products, Inc.	2277 Ford Pkwy. St. Paul 16	Minn
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP.		
Adv Pg 136	80 Cherlemont St. Newton Highlands 61	Mass
New York Air Brake Co.	230 Park Ave. New York 17	NY
Northey Rotary Compressors Ltd.	Alder Rd. Parkstone, Poole, Dorset, Eng	
Officine Galileo	Via Carlo Bini 44, Florence, Italy	
Philco Corp. Lansdale Tube Div.	Church Rd. Lansdale	Pa
Physique Industrielle S. A.	66 Bvd. de l'Imperatrice Brussels 1, Belg	
Pulsomer Engineering Co. Ltd. Nine Elms Iron Wks.	Reading, England	

RCA SERVICE CO. NUCLEAR & SCIENTIFIC SERVICES,		
Adv Pg 48	Cherry Hill, Delaware Tp. Camden 8	NJ
Republic Rubber Div. Lee Rubber & Tire Corp.	Youngstown	Ohio
Research Vacuum Supply Co.	6712 N Clark St, Chicago	Ill
Resitron Laboratories, Inc.	2908 Nebraska Ave, Santa Monica	Cal
Rolock Inc.	1350 Kings Hwy, Fairfield	Conn
S. E. P. I.	4, rue de Londres, Paris 9, France	
Southwestern Engineering Co.	4800 Santa Fe Ave, Los Angeles 58	Cal
STOKES CORP., F. J. Adv Pg 85	5500 Tabor Rd. Philadelphia 20	Pa
Sulzer Bros.	Winterthur, Switzerland	
Temperature Engineering Corp.	1200 Union Landing Rd, Riverton	NJ
THOMSON-HOUSTON (CIE. FRANCAISE),		
Adv Pg 276B	173 Blvd. Haussman, Paris 8, France	
Ultek Corp.	920 Commercial St, Palo Alto	Cal
Vacuum Apparatus Co.	906 Industrial Ave, Palo Alto	Cal
VACUUM-ELECTRONIC CORP.		
Adv Pg 260	Terminal Dr, Plainview	NY
Vacuum Instrument Corp.	Huntington Station	NY
Vacuum Metallurgical Developments, Ltd.	Shelford, Cambridge, England	
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St, Cambridge, Eng	
Vacuum Specialties Co. Inc.	34 Linden St, Somerville 2	Mass
Varian Associates	611 Hansen Way, Palo Alto	Cal
WELCH MFG. CO., W.M. Adv Pg 214	1515 Sedgwick St. Chicago 10	Ill
Will Corp.	Box 1050, Rochester 3	NY

VACUUM-MELTED METALS
See METALS—VACUUM-MELTED
FURNACES—MELTING

VACUUM PUMPS
See PUMPS—DIFFUSION
PUMPS—VACUUM

VALVE OPERATORS

Aerogen Co. Ltd, Anstey Mill Ln, Wks.	Alton, Hampshire, England	
Airmatic Valve, Inc.	7313 Associate Ave, Cleveland 9	Ohio
ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Annin Co.	1040 S Vail Ave, Montebello	Cal
Autoclave Engineers, Inc.	2930 W 22 St, Erie	Pa
AUTOMATIC SWITCH CO. Adv Pg 87	56M Hanover Rd. Florham Park	NJ
B-I-F Industries, Inc.	530-D Harris Ave. Providence 1	RI
Bailey Meter Co.	29801 Euclid Ave, Wickliffe	Ohio
Bettis Corp.	PO Drawer 9365, Houston 11	Tex
Black, Sivalls & Bryson, Inc.	7500 E 12 St, Kansas City 26	Mo
Conoflow Corp.	2100 Arch St, Philadelphia 3	Pa
Copes-Vulcan Div. Blaw-Knox Co.	939 W 26 St, Erie 4	Pa
CRANE CO. Adv. Pgs. 12, 13	4100 S Kedzie Ave. Chicago 32	Ill
Dahl Co. Inc., G. W.	86 Tupelo St. Bristol	RI
DARLING VALVE & MFG. CO. Adv Pg 75	Williamsport 28	Pa
Dewrance & Co., Ltd.	Great Dover St, London SE1, England	
Fielden Electronics Ltd.	Paston Rd. Wythenshawe, Man 22, Eng	
General Controls Co.	801 Allen Ave, Glendale 1	Cal
Gordon Valves Ltd., James	Rochester, Kent, England	
Honeywell Controls, Ltd.	Vanderhoof Ave. Toronto, Ont Canada	
Hydromatics, Inc.	70 Okner Pkwy, Livingston	NJ
Jamesbury Corp.	45 New St, Worcester 5	Mass
Jordan Controls Inc.	3235 W Hampton Ave, Milwaukee 9	Wis
Kieley & Mueller Co., Inc.	64 Genung St, Middletown	NY
Mason-Neilan Div. of Worthington Corp.	Norwood	Mass
Minn-Honeywell Reg Co, Con Dev Div.	2753 4th Ave, S, Maple 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	Wayne & Windrim Avns. Phila. 44	Pa
Newman, Hender & Co. Ltd.	Woodchester, Stroud, Gloucester, Eng	
Okadee Valve Co.	332 S Michigan Ave, Chicago 4	Ill
Partlow Corp.	Dept. NBG-58 New Hartford	NY
Powers Regulator Co.	3400 Oakton St, Skokie	Ill
Process Equipment Co.	150 Studebaker Rd. Tipp City	Ohio
Republic Flow Meter Co.	2260 Diversey Pkwy, Chicago 47	Ill
Stow Mfg. Co.	355 Shear St. Binghamton	NY
Stromberg-Carlson Div. Gen. Dynamics Corp.	100 Carlson Rd. Rochester	NY
Swartwout Div.-Crane Co.	Hookset Ind. Park, Manchester	NH
TELEFLEX INC. Adv Pg 118	Church Rd. North Wales	Pa
Texas Instruments Incorporated	6000 Lemmon Ave, Dallas 9	Tex
United Control Systems, Inc.	918 Woodley Rd. Dayton 3	Ohio
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT.		
Adv. Pgs. 76, 77	Beech St. Beverly	Mass
Vacuum Research (Cambridge) Ltd.	Quayside, Bridge St, Cambridge, Eng	
Wheeler Mfg. Co. C. H.	1850 Sedgley Ave, Philadelphia 32	Pa
Whittaker Controls Div. Telecomputing Corp.	915 N Citrus, LA	Cal

VALVES
1. BALL
2. BELLOWS-SEAL
3. BUTTERFLY
4. GAS-LOADED
5. GATE
6. GLOBE
7. LIFT
8. NEEDLE
9. PISTON
10. PLUGCOCK
11. POPPET
12. RELIEF
13. SOLENOID
14. SPRING-LOADED
15. SWING
16. VACUUM

ACF Industries, Inc. 1-4-5-8-10-12-13	750 3rd Ave, New York 17	NY
A.E.I. LTD. INSTRUMENTATION DIV. 16,		
Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Aero Supply Mfg. Co. Inc. 1-2-3-9-11-12-13-14-15	Corry	Pa
Aerogen Co Ltd Anstey Mill Ln Wks 5-6	Alton, Hampshire, England	
Aeroquip (Canada), Ltd. 11	287 Bridgeland Ave. Toronto 19, Ont. Can.	
Aerotec Industries Inc, Industrial Div 12-13	2 Meadow St, South Norwalk	Conn
Air Liquide, 2-3-4-6-8-9-10-14	75 Quai d'Orsay, Paris, France	
Airmatic Systems Corp. 3-13	441 Market St. Saddle Brook	NJ
Airmatic Valve Inc 6-9-11-12-13-14-16	7313 Associate Ave. Cleveland 9	Ohio
Allied Control Co, Inc. 13	2 E End Ave, New York 21	NY
ALLIS-CHALMERS MFG. CO. 1-3,		
Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Alloy Metal Sales Ltd, 1-5-6-8-16	215 Lakeshore Blvd, E, Toronto 2, Can	
Alloy Steel Products Co. 1-2-5-6-7-8-15-16	1300 W Elizabeth Ave, Linden	NJ
American Instrument Co, Inc. 12-16	8030 Georgia Ave, Silver Spring	Md
Annin Co. 2-6-8-9	1040 S Vail Ave, Montebello	Cal
Associated Valve Co. 2-6-8-12-14-16	Walnut & Center, North Wales	Pa
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, 5-15,		
Adv Pg 276AA	Charleroi, Belgium	
Atkomatic Valve Co. Inc. 13-16	545 W Abbott St. Indianapolis	Ind
Atlas Valve Co. 4-9-11-12	280 South St. Newark 5	NJ
Atwood & Morrill Co, 2-4-5-6-7-9-11-12-14-15-16	Salem	Mass
Autoclave Engineers, Inc. 8-12	2930 W 22 St, Erie	Pa
AUTOMATIC SWITCH CO. 6-8-11-13-16,		
Adv Pg 87	56M Hanover Rd. Florham Park	NJ
Automatic Timing & Controls Inc 3-6-11	King of Prussia	Pa
B-I-F Industries, Inc. 3	530-D Harris Ave, Providence 1	RI
Bailey Meter Co, 9-14	29801 Euclid Ave, Wickliffe	Ohio
Bailey Meter Co, Ltd, 9	5010 St, Catherine St, W, Montreal, Que Can	
BALDWIN-LIMA-HAMILTON CORP. 3,		
Adv Pg 103	Dept H B, Philadelphia 42	Pa
Beach-Russ Co. 12-16	420 Lexington Ave. New York 17	NY
Bendix-Pacific Div, Bendix Corp, 1-3-5-8-9-11-12-13	11600 Sherman Way, No, Hollywood	Cal
Bio-Rad Laboratories, 4-8	1257 S 32nd St, Richmond	Cal
Birkett, Billington & Newton Ltd., T. M. 5-7-8-10-12-14	Etruria Rd, Hanley, Stoke-on-Trent, Staffs, England	
Black, Sivalls & Bryson Inc 2-3-4-6-7-14	7500 E 12 St, Kansas City 26	Mo
Blaw-Knox Co. 5-6-7-10-11-12-14-15-16	300 6th Ave, N. B. Pittsburgh 22	Pa
Bryans Aeroquipment Ltd, 16	Willow Ln, Mitcham, Surrey, England	
Calcon Products Co. 13	3518 W Pico Blvd. Los Angeles 19	Cal
Canadian Vickers Ltd. 3	Box 560, Pl, D'Armes Sta. Montreal, Que Canada	
Carpenter Mfg. Corp. 1-8	6723 Denison Ave. Cleveland 2	Ohio
Cash Co, A W, Div Riley Stoker 1-2-9-14	540 N 18 St, Decatur	Ill
Cash Valve Mfg. Corp. 11-12-14-16	Wabash & Morgan, Decatur 60	Ill
Central Scientific Co. 16	1700 Irving Park Rd. Chicago 13	Ill
Chapman Valve Mfg. Co. 2-5-6-8-13-14-15-16	203 Hampshire St. Indian Orchard	Mass
Chase Brass & Copper Co, 5-6-8	236 Grand St, Waterbury	Conn
Chemtrol, 1-6-8	404 W Central, Santa Ana	Cal
Cochrane Corp. 12	3214 17th St. Philadelphia 32	Pa
Conoflow Corp, 3-5-6-9	2100 Arch St, Philadelphia 3	Pa
Consolidated Controls Corp, 1-9-12-13	14 Durant Ave, Bethel	Conn
Consolidated Electrodynamics Corp, 16	360 Sierra Madre Villa, Pasadena	Cal
Consolidated Engines & Machy Co, Ltd, 12-13	5645 Pare St, Mt. Royal, Montreal, Can	
Consolidated Vacuum Corp, 16	1775 Mt. Read Blvd. Rochester	NY
Controls Co. of America, 13	9555 Soreng Ave, Schiller Park	Ill
Cooper Alloy Corp 1-5-6-7-8-9-12-15-16	Bloy St,-Ramsey Av, Hillside	NJ
Coors Porcelain Co, 1	600 9th St, Golden	Colo
Copes-Vulcan Div. Blaw-Knox Co, 2-5-6-9-14	939 W 26 St, Erie 4	Pa
Coppus Engineering Corp, 9-13-16	334 Park Ave, Worcester	Mass
Cornelius Co, Aero Div, 12-16	550 39 Ave, NE, Minneapolis 21	Minn
CRANE CO. 2-3-5-6-7-8-9-12-15-16, Adv. Pgs. 12, 13	4100 S Kedzie Ave. Chicago 32	Ill

Crosby Valve & Gage Co. (Ashton Valve) 2-12-14	4043 Kendrick St. Wrentham	Mass
Dahl Co. Inc., W. G. 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	86 Tupelo St. Bristol	RI
DARLING VALVE & MFG. CO. 3-9-15, Adv Pg 75	**Williamsport 28**	**Pa**
Denison Engineering Div. Amer. Brake Shoe Co. 13	1160 Dublin Rd. Columbus 16	Ohio
Detroit Controls Div. Amer. Rad. & Stand. San. Corp. 1-5-6-8-10-11-12-13-14-15	5900 Trumbull, Detroit 8	Mich
Dewrance & Co., Ltd. 2-3-5-6-8-12-13-14-15	Great Dover St. London SE1, England	
De Zurik Corp. 5-10-16	Sartell	Minn
Dunham-Bush, Inc. 2-7-12	179 South St. West Hartford 10	Conn
Duriron Co. Inc. 10	450 N Findlay St. Dayton 4	Ohio
Eclipse Fuel Engineering Co. 3-13	1100 Buchanan, Rockford	Ill
Edward Valves, Inc. Sub. Rockwell Mfg. Co. 1-2-5-6-7-8-9-15	1200 W 145th St. East Chicago	Ind
Edwards High Vacuum Inc. 16	Cumberland Rd. Burlington, Ont Can	
Energy Control Co., Inc. 3-5-13	5 Beekman St. New York 38	NY
Fairbanks Co., The, 1-5-6-7-8-14-15	393 Lafayette St. New York 3	NY
Farris Engineering Co. 2-12	400 Commercial Ave. Palisades Park	NJ
Fischer & Porter Co. 8	50 Warminster Rd. Warminster	Pa
FISHER GOVERNOR CO. 3-4-12, Adv Pg 123	**Box 307, Marshalltown**	**Iowa**
FLIGHT REFUELING INC. 1-2-3-4-11-12-13-14-16, Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
Flight Refueling Ltd. 10-15	Tarrant Rushton Arfld. Blanford, Dorset	Eng
Foxboro Co. 1-2-3-6-8-11-14	38 Neponset Ave. Foxboro	Mass
Garrett Corp. 3-8-11-12-13-16	9851 Sepulveda Blvd. L A 45	Cal
General Controls Co. 1-2-3-5-6-9-10-11-12-13-14-15-16	801 Allen Ave. Glendale 1	Cal
GENERAL KINETICS CORP. 1-2-12-14, Adv Pg 104	**197 S Van Brunt St. Englewood**	**NJ**
Giesener Co., A. J. 1-5-6-8-13	975 Bryant St. San Francisco 3	Cal
Gordon Valves Ltd., James, 1-2-3-4	Rochester, Kent, England	
Gould Co., John D. 13	4707 Mass. Ave. Indnpls. 2	Ind
Grinnell Co. 5-6-10-14-15-16	260 W Exchange St. Providence 1	RI
Guardian Electric Mfg. Co. 3-13	1550 W Carroll Ave. Chicago 7	Ill
Halliburton Oil Well Cementing Co. 10	Drawer 1431, Duncan	Okla
Hammel-Dahl/Foster Engineering Div. Gen. Controls Co. 2-3-6-8-9-12-13-14-15-16	Warwick Industrial Pk. Warwick	RI
Hanna Engineering Works, 13	1767 Elston Ave. Chicago 22	Ill
Haskell Engineering Co. 1-3-5-6-8-12-13-14	1236 S Central Ave. Glendale 4	Cal
Hays Mfg. Co. 13	814 W 12th St. Erie	Pa
High Vacuum Equipment Corp. 2-5-16	2 Churchill Rd. Hingham	Mass
Hills McCanna Co. 1-14-16	4605 W Touhy Ave. Chicago 46	Ill
Hoke, Inc. 1-2-6-8-9-12-13-14-16	1 Tenakill Park, Cresskill	NJ
Holley Carburetor Co. 9-11-12	11955 E 9 Mile Rd. Warren	Mich
Honeywell Controls, Ltd. 2-3-12-13	Vanderhoof Ave. Toronto, Ont Canada	
Hydromatics, Inc. 1-16	70 Okner Pkwy. Livingston	NJ
Imperial Brass Mfg. Co. 8-10	6300 W Howard St. Chicago 48	Ill
Industrial Filter & Pump Mfg. Co. 1-3-5-6-8-9-10-12-13-14-15-16	5900 Ogden Ave. Cicero 50	Ill
Instruments, Inc. 12	Box 556, Tulsa	Okla
International Pump & Machine Works, 2-16	81 Dorsa Ave. Livingston	NJ
Ipsen Industries, Inc. 16	Box 500, Rockford	Ill
Jackes-Evans Mfg. Co. 13	4427 Geraldine, St. Louis 15	Mo
James, Pond & Clark, Inc. 10-11-12-16	2181 E Foothill Blvd. Pasadena	Cal
Jamesbury Corp. 1-16	45 New St. Worcester 5	Mass
Johnson Corp. 13	809 Wood St. Three Rivers	Mich
Johnson Service Co. 14	Milwaukee 1	Wis
Kahlenberg Bros. Co. 13	12th & Monroe Sts. Two Rivers	Wis
Keelavite Hydraulics Ltd. 9-12-13	Allesley, Coventry, Warwickshire, Eng	
Kieley & Mueller Co., Inc. 2-6-12-14-16	64 Genung St. Middletown	NY
Kinney Vacuum Div. The N. Y. Air Brake Co. 16	3529 Washington St. Boston 30	Mass
Koontz-Wagner Electric Co. 13	N Michigan & Merion, South Bend	Ind
Kunkle Valve Co. 12	121 S Clinton St. Fort Wayne	Ind
Laboratory Furniture Co. Inc. 8-10	Old Country Rd. Mineola	NY
Ladish Co. 3-5-6-7-8-10	5481 S Packard Ave. Cudahy	Wis
Land Air Inc. 13	7444 W Wilson Ave. Chicago 31	Ill
Laurence Co. Inc., R. G. 6-9-11-13-16	134 Summit St. Tenafly	NJ
Leemath, Inc. 2	Oak Dr. Syosset	NY
Litton Engineering Labs. 16	Box 949, Grass Valley	Cal
Lunkenheimer Co. 1-5-6-8-12-13	Beekman & Waverly, Cincinnati 14	Ohio
MANCO MFG. CO. 13, Adv Pg 239	**Bradley**	**Ill**
Marsh Instrument Co. Div. Colo Oil & Gas Corp. 6-8-13	3501 Howard St. Skokie	Ill
Mason-Neilan Div. of Worthington Corp. 3-4-14	Norwood	Mass
Meehanite Metal Corp. 1-3-5-6-9-10	714 North Ave. New Rochelle	NY
Mefcoid Corp. 13	4201 Belmont Ave. Chicago 41	Ill
Metal Bellows Corp. 2	605 Mica Lane Wellesley	Mass
Midwestern Instruments, 9	41st & Sheridan Rd. Box 7509, Tulsa 18	Okla
Minn-Honeywell Reg Co. Con Dev Div. 3-4-6-7-9-12-13-14	2753 4th Ave. S. Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP, 2-3-6-9, Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group, 13	2600 Ridgway Rd. Minneapolis 13	Minn
Moffat Engineering Co. Ltd. 3-6-7-8-9-10-12-13-14-15	77 S Audley St. London W1, England	
N. G. N. Electrical Ltd. 16	Ave. Parade, Accrington, Lanc, England	
NRC EQUIPMENT CORP. NATIONAL RESEARCH CORP. 16, Adv Pg 136	**80 Cherlemont St. Newton Highlands 61**	**Mass**
New York Air Brake Co. 9-10-12-16	230 Park Ave. New York 17	NY
Newman, Hender & Co. Ltd. 1-2-3-5-6-8-9-10-12-15-16	Woodchester, Stroud, Gloucester, Eng	
North British Steel Foundry Ltd. 1-2-3-4-5-6-9-10-11-12-13-14-15-16	Bathgate, W Lothian, Scotland	
Nuclear Products Co. 8-11	15635 Saranac Rd. Cleveland 10	Ohio
OPW-Jordan, 5-12-13-14-15	6013 Wiehe Rd. Cincinnati 13	Ohio
Officine Galileo, 8-16	Via Carlo Bini 44, Florence, Italy	
Ohio Injector Co. 5-6-7-10-15	275 Main St. Wadsworth	Ohio
Oilgear Co. 6-8-9-12-13-14	1560 W Pierce St. Milwaukee	Wis
Okadee Valve Co. 5-14-15	332 S Michigan Ave. Chicago 4	Ill
On Mark Couplings, 1-2-5-9-13-15	4440 York Blvd. Los Angeles 41	Cal
PACIFIC VALVES, INC. 1-3-6-7-8-9-13-14, Adv Pg 218	**3201 Walnut Ave. Long Beach**	**Cal**
Parker Aircraft Co. 2-3-4-5-6-9-11-12-13-14-15-16	5827 W Century Blvd. L A 45	Cal
Pfaudler Co. Div. Pfaudler Permutit Inc. 5-6-11-12	1000 West Ave. Rochester 3	NY
Pittsburgh-Des Moines Steel Co. 10	Neville Island, Pittsburgh 25	Pa
Powell Co., Wm., The, 1-2-5-6-7-8-10-12-15	2525 Spring Grove Ave. Cincinnati 22	Ohio
Powers Regulator Co. 6	3400 Oakton St. Skokie	Ill
PRATT CO., HENRY, 1-3-11, Adv Pg 245	**319 W Van Buren, Chicago 7**	**Ill**
Pulsomer Engineering Co. Ltd. Nine Elms Iron Wks. 16	Reading, England	
R-P & C Valve Div. ACC, 5-6-8-15	Reading	Pa
Republic Flow Meter Co. 4-6-14	2260 Diversey Pkwy. Chicago 47	Ill
Research Vacuum Supply Co. 8-16	6712 N Clark St. Chicago	Ill
Resitron Laboratories, Inc. 16	2908 Nebraska Ave. Santa Monica	Cal
Robbins Aviation, Inc. 6-8-16	2350 E 38th St. Vernon 58	Cal
Robertshaw-Fulton Controls Co. Fulton Sylphon Div. 2	Box 400, Knoxville 1	Tenn
Rockwell Co., W. S. 3-5-6	200 Eliot St. Fairfield	Conn
Rockwell Mfg. Co. 10	400 N Lexington Ave. Pittsburgh 8	Pa
Ruggles-Klingermann Mfg. Co. 12-13-14	Salem	Mass
S. E. P. I. 2-3-5-16	4, rue de Londres, Paris 9, France	
SAINT GOBAIN, 7-16, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Schueler & Co. 10-16	75 Cliff St. New York 38	NY
Schutte & Koerting Co 3-5-6-12-13-14-15	Cornwell Heights, Bucks County	Pa
Sealol Inc. 7-11-12	Warwick Industrial Pk. Providence 5	RI
Simmonds Precision Products, Inc. 1-5	105 White Plains Rd. Tarrytown	NY
Simplex Valve & Meter Co. 12-16	7 E Orange St. Lancaster	Pa
Skinner Electric Valve Div. Skinner Chuck Co. 13	95 Edgewood Ave. New Britain	Conn
Soc. de Const. pour Tres Basses Temp's. 2	82 Av Ambroise Croizat, St. Martin D'Heres, Isere, France	
Societe Rateau 2-3-4-5-12-13-14-15-16	Rue Rateau La Coumeuve, Seine, France	
Southern Corp. 3-5-9-10-14-15-16	Box 810, Charleston	SC
Squires Co., C. E. 8-14-16	18502 Syracuse Ave. Cleveland 10	Ohio
STOKES CORP., F. J. 16, Adv Pg 85	**5500 Tabor Rd. Philadelphia 20**	**Pa**
Talbot Stead Tube Co. Ltd. 10	Green Ln. Walsall, Staffs, England	
Target Rock Corp. 2-12-14	108 Madison Ave. Hempstead	NY
Terriss-Consolidated Industries, 7-10	22-24 Wooster St. New York 13	NY
THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP, 1-2-3-4-5-6-7-13-14, Adv Pg 124	**23555 Euclid Ave. Cleveland 17**	**Ohio**
TOSI, S.p.A., FRANCO, 1, Adv Pg 276T	**Legnano, Milan, Italy**	
Tube Turns Plastics, Inc. 1	2929 Magazine St. Louisville 11	Ky
Ultek Corp. 16	920 Commercial St. Palo Alto	Cal
United Aircraft Products, Inc. 12-13-16	Box 1035, Dayton 1	Ohio
United Control Systems, Inc. 9	918 Woodley Rd. Dayton 3	Ohio
UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. 1-2-5-6-8-16, Adv. Pgs. 76, 77	**Beach St. Beverly**	**Mass**
Vacuum Apparatus Co. 16	906 Industrial Ave. Palo Alto	Cal
VACUUM-ELECTRONIC CORP. 2-5-13-16, Adv Pg 260	**Terminal Dr. Plainview**	**NY**
Vacuum Instrument Corp. 16	Huntington Station	NY
Vacuum Metallurgical Developments, Ltd. 3-5-6-8-16	Shelford, Cambridge, England	
Vacuum Research (Cambridge) Ltd. 3-5-7-15-16	Quayside, Bridge St. Cambridge, Eng	
Vacuum Specialties Co. Inc. 16	34 Linden St. Somerville 2	Mass
Valcor Engineering Corp. 11-13	333 Carnegie Ave. Kenilworth	NJ
Vanton Pump & Equipment Corp. 5-6-10	Bloy St. & Ramsey Ave. Hillside	NJ
Velan Engineering Ltd. 2-5-6-8	2125 Ward Ave. St. Laurent, Montreal 9	Que
Vickers, Inc. Div. Sperry-Rand Corp. Marine & Ordnance Dept. 9-12-13	Waterbury 20	Conn
Vickery Co. 1	610 16th St. Oakland 12	Cal
W-K-M Div. of ACF Industries, 1-5-10	Box 2117, Houston	Tex
Watson-Marlow Air Pump Co. 2-8-10-16	Marlow Bucks, England	
Western Gear Corp. 1	Box 182 Lynwood	Cal
WESTINGHOUSE ELEC CORP. ATOMIC EQUIP. DEPT. 3-6-7-8-9-11-12-13-14-15, Adv. Pgs. 138, 139, 142, 143	**Cheswick**	**Pa**

Wheeler Mfg. Co. C. H. 2	1850 Sedgley Ave. Philadelphia 32	Pa
Whittaker Controls Div. Telecomputing Corp. 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16	915 N Citrus, LA	Cal
Willamette Iron & Steel Co. 1-3	280 NW Front Ave. Portland	Ore
Worcester Valve Co. Inc. 1-5	16 Parker St. Worcester 10	Mass
Yamall-Waring Co. 6-9	102 E Mermaid Ln. Phila 18	Pa
Yuba Consolidated Industries, Inc. 3-5	1 Bush St. San Francisco 4	Cal

VENTILATION EQUIPMENT
See Also FANS
AIR-CONDITIONING UNITS
SERVICES: VENTILATION-SYSTEM DESIGN

Air-Shields, Inc.	Hatboro	Pa
Air & Refrigeration Corp.	439 Madison Ave. New York 17	NY
American Agile Corp.	Box 168, Bedford	Ohio
CAMBRIDGE FILTER CORP. Adv. Pgs. 98, 122	726 E Erie Blvd. Syracuse 1	NY
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Clarage Fan Co.	1 Clarage Pl. Kalamazoo	Mich
Coppus Engineering Corp.	334 Park Ave. Worcester	Mass
Dayton Electric Mfg. Co.	126 S Oakley Blvd. Chicago 12	Ill
Douglas Engineering Co. Ltd.	195 Bridgeland Ave. Toronto 19, Ont	Can
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd. London, SW1, England	
Krantz Lufttechnik, H.	Aachen-Richterich, Germany	
Matthews & Yates Ltd. Cyclone Wks.	Swinton, Manchester, England	
Midland Heating & Ventilation Co. Ltd.	Bedford Rd. Birmingham 11, England	
Mine Safety Appliances Co.	201 N Braddock Ave. Pittsburgh 8	Pa
Pulverizing Machinery Co. Div. American-Marietta Co.	Chatham Rd. Summit	NJ
Reetz Co., Robert C.	81 Montgomery St. Pawtucket	RI
Robbins & Myers, Inc.	1345 Lagonda Ave. Springfield	Ohio
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges Clemenceau, Courbevoie, Seine, France	
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Trane Co.	LaCrosse	Wis
Westinghouse Elec Corp. Sturtevant Div.	Boston 36	Mass
Wheelabrator Corp. Dust & Fume Control Div.	1483 S byzkit St. Mishawaka	Ind

VESSELS—PRESSURE, REACTOR
See Also CALANDRIAS—REACTOR

ACF Industries, Inc.	750 3rd Ave. New York 17	NY
AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO. Adv Pg 249	261 Madison Ave. New York 16	NY
AEROJET-GENERAL NUCLEONICS, Adv Pg 119	Box 77, San Ramon	Cal
ALCO PRODUCTS, INC. Adv. Pgs. 42, 43	Box 1065, Schenectady 5	NY
ALLIS-CHALMERS MFG. CO. Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Alsthom, Nuclear Div.	38, Ave. Kleber, Paris 16, France	
American Cast Iron Pipe Co.	Box 2603, Birmingham 2	Ala
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI, Adv Pg 276AA	Charleroi, Belgium	
Autoclave Engineers, Inc.	2930 W 22 St. Erie	Pa
AVERY & SAUL CO. Adv Pg 8	115 Rindge Ave. Cambridge	Mass
Avondale Shipyards, Inc.	Box 1030, New Orleans 8	La
BABCOCK & WILCOX CO. Adv Pg 1	161 E 42 St. New York 17	NY
Babcock-Wilcox & Goldie-McCulloch Ltd.	Coronation Blvd. Galt, Ont. Can.	
Babcock & Wilcox Ltd.	209 Euston Rd. London NW 1, England	
BALDWIN-LIMA-HAMILTON CORP. Adv Pg 103	Dept N B, Philadelphia 42	Pa
Bart Labs. & Design Inc.	125 Manchester Pl. Newark 4	NJ
Bethlehem Steel Corp.	701 E 3rd St. Bethlehem	Pa
Bliss Co., E. W.	1375 Raff Rd. SW, Canton	Ohio
Braun & Co., C. F.	1000 S Fremont Ave. Alhambra	Cal
CPC Engineering Corp.	Sturbridge	Mass
Cambridge Div. Standard Steel Corp.	2 Industrial Pk. Lowell	Mass
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Canadian Westinghouse Co. Ltd.	Box 510, Hamilton, Ontario, Canada	
Chicago Bridge & Iron Co.	332 S Michigan Ave. Chicago 4	Ill
Cochran & Co. Annan, Ltd.	34 Victoria St. London SW1, England	
Combustion Engineering, Inc.	200 Madison Ave. New York 16	NY
Consolidated Western Steel Div. U. S. Steel Corp.	Box 2015, Term Ann, L A 54	Cal
Controlled Atmosphere Enclosures Mfg Co	1061 E 8th St. Jacksonville 6	Fla
Downington Iron Works, Inc.	Wallace Ave. Downington	Pa
FOSTER WHEELER CORP. Adv Pg 7	666 5th Ave. New York 19	NY
Foster Wheeler Ltd.	Box 430, St. Catharines, Ontario, Can.	
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
GAAA	100 Av. Ed Herriot, LePlessis-Robinson, Seine, France	
General Steel Castings Corp.	1417 State St. Granite City	Ill
GRAVER TANK & MFG CO. DIV. UNION TANK CAR CO. Adv Pg 106	4809 Tod Ave. East Chicago	Ind
Harvey & Co. (London) Ltd., G. A.	Woolwich Rd. London, SE7, England	
Heppenstall Co.	Pittsburgh	Pa
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Interatom, GmbH.	Bensberg/Koeln, Postfach, Germany	
Kaiser Fleetwings, Inc.	Bristol	Pa
KELLEY & CO., O. G. Adv Pg 30	98 Taylor St. Boston 22	Mass
Klockner-Werke AG.	Bessemerstr. 1, Osnabruck, Germany	
Lesker Boiler & Engineering Corp.	3201 S Wolcott Ave. Chicago 8	Ill
Leader Iron Works, Inc.	2110 N Jasper St. Decatur	Ill
Lennard Co. Inc., P. M.	1061 E 8th St. Jacksonville 6	Fla
LENOX INSTRUMENT CO. Adv Pg 54	2010 Chancellor St. Philadelphia 3	Pa
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Maryland Shipbuilding & Drydock Co.	Box 537, Baltimore 3	Md
NATIONAL ANNEALING BOX CO. Adv Pg 268	Washington	Pa
National Forge Co.	10 Front St. Irvine, Warren County	Pa
National Tank & Boiler Co.	7210 Polson Ln. St. Louis	Mo
New York Shipbuilding Corp.	Camden 1	NJ
Nooter Corp.	1424 S 3rd St. St. Louis 66	Mo
PACIFIC COAST ENGINEERING CO. Adv Pg 52	PO Drawer E, Alameda	Cal
Patterson Foundry & Machine Co.	East Liverpool	Ohio
Pfaudler Co. Div. Pfaudler Permutit Inc.	1000 West Ave. Rochester 3	NY
PHOENIX-RHEINROHR AG, Adv Pg 276K	August-Thyssen-Str. 1, Dusseldorf, Ger	
Pittsburgh-Des Moines Steel Co.	Neville Island, Pittsburgh 25	Pa
Radiation Products, Inc.	Ft. 40 Rd, Flushing 52	NY
S. I. A. C. Adv Pg 276T	Via S. Sebastiano 2, Genoa, Italy	
Smith Corp., A. O., Atomic & Process Equip. Div.	3533 N 27 St. Milwaukee 1	Wis
Societe Fives-Penhoet	340 rue Saint-Honore, Paris 1, France	
Societe Rateau	Rue Rateau La Courneuve, Seine, France	
Southwestern Engineering Co.	4800 Santa Fe Ave. Los Angeles 58	Cal
Steams-Roger Mfg. Co.	Box 5888, Denver 17	Colo
Steels Engrg. Installations Ltd.	Sunderland, Durham, England	
Sulzer Bros.	Winterthur, Switzerland	
Sun Shipbuilding & Dry Dock Co.	Foot of Morton Ave. Chester	Pa
Teleweld Inc.	11535 Franklin St. Franklin Park	Ill
Terrisa-Consolidated Industries	22-24 Wooster St. New York 13	NY
Thompson, Ltd., John	Wolverhampton, England	
TOSI, S.p.A., FRANCO, Adv Pg 276T	Legnano, Milan, Italy	
Vickers-Armstrongs (S. Marston) Ltd.	Swindon, Wiltshire, England	
Westinghouse Elec Corp. Steam Div.	Lester	Pa
Willamette Iron & Steel Co.	280 NW Front Ave. Portland	Ore
Yuba Consolidated Industries, Inc.	1 Bush St. San Francisco 4	Cal

VIEWING EQUIPMENT
See BORESCOPES
OPTICAL INSTRUMENTS & PARTS
PERISCOPES
SHIELDING—RADIATION, WINDOWS
TELEVISION SYSTEMS—CLOSED-CIRCUIT

VISCOSITY CONTROLS
See CONTROLS—VISCOSITY

VOLTMETERS

AEG, Adv Pg 276E	Hochhaus, Frankfurt/Main, Germany	
A. E. I. Ltd.	33 Grosvenor Pl. London SW1, England	
Assembly Products, Inc.	75 Wilson Mills Rd. Chesterland	Ohio
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Baldwin Industrial Controls	Dartford, Kent, England	
Bendix Corp.	1128 Fisher Bldg. Detroit 2	Mich
BRISTOL CO. Adv Pg 110	Box 1790 HBG, Waterbury 20	Conn
British Physical Labs.	Radlett, Herts, England	
Burr-Brown Res. Corp.	Box 6444, Tucson	Ariz
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl. London SW1, Eng	
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Cubic Corp.	5575 Kearny Villa Rd. San Diego 11	Cal
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
Electronic Instruments Ltd.	Lower Mortlake Rd. Richmond, Surrey	Eng
Engelhard Industries, Inc.	113 Astor St. Newark 2	NJ
English Electric Co. Ltd.	Eng. Elec. Hse. Strand, London WC2	Eng
Epic, Inc.	150 Nassau St. New York 38	NY
Esterline-Angus Co.	Box 596, Indianapolis 6	Ind
Fluke Mfg. Co. Inc. John	Box 7161, Seattle 33	Wash
GENERAL ELECTRIC CO. APPARATUS SLS. OFF. Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
General Meters, Inc.	Box 1701, Grand Junction	Colo
General Scientific Equipment Co.	Limekiln & Williams, Philadelphia 50	Pa
Heath Co.	Benton Harbor	Mich
Helipot Div. Beckman Instruments, Inc.	2500 Fullerton Rd. Fullerton	Cal
Hickok Electrical Instrument Co.	10501 Dupont Ave. Cleveland 8	Ohio
International Instruments, Inc.	Box 2954, New Haven 15	Conn
Jennings Radio Mfg. Corp.	970 McLaughlin Ave. San Jose 8	Cal
Kin Tel Div. Cohu Electronics, Inc.	5725 Kearny Villa Rd. San Diego 12	Cal
Martindale Electric Co.	Box 617, Edgewater St. Cleveland 7	Ohio

Meters, Inc.	5353 N Keystone Av, Indnpls 20	Ind
Metrix Instruments Ltd.	54 Victoria Rd, Surbiton, Surrey, Eng	
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave, S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Non-Linear Systems, Inc.	Delmar Airport, Delmar	Cal
Officine Galileo	Via Carlo Bini 44, Florence, Italy	
Pace Electrical Instruments Co. Inc.	70-31 84th St, Glendale 27	NY
Phaostron Instrument & Electronic Co.	151 Pasadena Ave, South Pasadena	Cal
Philco Corp.	4700 Wissahickon Ave, Phila 44	Pa
Precision Apparatus Co. Inc.	70-31 84th St. Glendale 27	NY
Pye & Co. Ltd., W. G.	York St, Cambridge, England	
Q. V. S., Inc.	20 N 15th St, E Orange	NJ
RAWSON ELECTRICAL INSTRUMENT CO.		
Adv Pg 254	**114 Potter St. Cambridge 42**	**Mass**
Sangamo Electric Co.	11 & Converse Sts, Springfield	Ill
Shurite Meters	130 Wallace St, New Haven 8	Conn
Simpson Electric Co. Div. Amer Gage & Mach Co.	5208 W Kinzie St, Chicago 44	Ill
Sterling Mfg. Co.	2880 Detroit Ave, Cleveland 13	Ohio
Technique Associates Div. Duncan Electric Co.	1413 Cornell Ave, Indianapolis	Ind
Technology Instrument Corp.	531 Main St, Acton	Mass
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
Trio Laboratories, Inc.	Plainview	NY
Triplett Electrical Instrument Co.	286 Harmon Rd, Bluffton	Ohio
WELCH MFG. CO., W.M. Adv Pg 214	**1515 Sedgwick St. Chicago 10**	**Ill**
Westinghouse Elec Corp, Instrument Dept	Newark	NJ

VOLTMETERS—ELECTRONIC

A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	**Crown House, Aldwych, London WC2**	**Eng**
Advance Components Ltd.	Roebuck Rd, Hainault, Essex, England	
Advanced Instruments, Inc.	45N Kenneth St, Newton Highlands 61	Mass
Allied Radio Corp.	100 N Western Ave, Chicago 80	Ill
Aveley Electric, Ltd.	S. Ockendon, Essex, England	
BAIRD-ATOMIC, INC. Adv Pg 65	**33 University Rd. Cambridge 38**	**Mass**
Baldwin Industrial Controls	Dartford, Kent, England	
Beckman Instruments, Inc, Systems Div.	325 N Muller Ave, Anaheim	Cal
Bendix Corp.	1128 Fisher Bldg, Detroit 2	Mich
Biotronics Labs, Inc.	Box 744, Sta. B, Montreal 2, P.Q.	Can
British Physical Labs.	Radlett, Herts, England	
Bruel & Kjaer	Linde Alle 23, Naerum, Den	
Bryans Aeroquipment Ltd.	Willow La, Mitcham, Surrey, England	
Burndept Ltd.	West St. Erith, Kent, Eng	
Burr-Brown Res. Corp.	Box 6444, Tucson	Ariz
Cambridge Instrument Co., Ltd.	13 Grosvenor Pl, London SW1, Eng	
Canadian Marconi Co.	2442 Trenton Ave, Montreal 16, Canada	
Computer Equipment Corp.	1931 Pontius Ave, L A 25	Cal
Consolidated Electrodynamics Corp.	360 Sierra Madre Villa, Pasadena	Cal
Cubic Corp.	5575 Kearny Villa Rd, San Diego 11	Cal
Curtiss-Wright Corp, Electronics Div.	35 Market St, East Paterson	NJ
Dawe Instruments Ltd.	Harlequin Ave. Great West Rd. Brentford, Middx, Eng	
DuMont Labs., Allen B., Dv. Fairchild Cam		
Electromechanical Products & Inst Corp.	Markham Rd, Agincourt, Ont, Can. 750 Bloomfield Ave, Clifton	NJ
Dymec Div. Hewlett-Packard Co.	395 Page Mill Rd, Palo Alto	Cal
E-H Research Labs, Inc.	163 Adeline St, Oakland 20	Cal
Electronic Instruments Ltd.	Lower Mortlake Rd, Richmond, Surrey	Eng
Epic, Inc.	150 Nassau St, New York 38	NY
Epsco, Inc.	275 Massachusetts Ave, Cambridge 39	Mass
Flow Corp.	85 Mystic St, Arlington 74	Mass
Fluke Mfg. Co. Inc. John	Box 7161, Seattle 33	Wash
FRANKLIN ELECTRONICS, INC.		
Adv Pg 263	**4th St. Bridgeport**	**Pa**
General Meters, Inc.	Box 1701, Grand Junction	Colo
General Radio Co.	West Concord	Mass
Gyra Electronics Corp.	Box 184 La Grange	Ill
Hallamore Electronics Div.	714 Brookhurst, Anaheim	Cal
Heath Co.	Benton Harbor	Mich
Hewlett-Packard Co.	1501 Page Mill Rd, Palo Alto	Cal
Hickok Electrical Instrument Co.	10501 Dupont Ave, Cleveland 8	Ohio
Houston Instrument Corp.	Box 22234, Houston 27	Tex
Hydel, Inc.	223 Crescent St, Waltham 54	Mass
Industrial Test Equipment Co.	55 E 11th St, New York 3	NY
Jackson Electrical Instrument Co.	194 McDonough St, Dayton 2	Ohio
Kin Tel Div, Cohu Electronics, Inc.	5725 Kearny Villa Rd, San Diego 12	Cal
Leeds & Northrup Co.	4936 Stenton Ave, Phila 44	Pa
Lockheed Aircraft Corp.	Box 551 Burbank	Cal
Metrix Instruments Ltd.	54 Victoria Rd, Surbiton, Surrey, Eng	
Metronix, Inc.	75 Wilson Mills Rd, Chesterland	Ohio
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave, S, Mnpls 8	Minn
MINN-HONEYWELL REG. CO. INDL. PRODS. GROUP,		
Adv. Pgs. 26,27,115	**Wayne & Windrim Aves. Phila. 44**	**Pa**
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
Muirhead Instruments Inc.	441 Lexington Ave, New York 17	NY
Nash & Thompson Ltd.	Hook Rise, Tolworth, Surbiton, Surrey, Eng	
Non-Linear Systems, Inc.	Delmar Airport, Delmar	Cal
Norair, Div. Northrop Corp.	1001 E Broadway, Hawthorne	Cal
NUCLEAR-ELECTRONICS CORP.		
Adv Pg 6	**2925 N Broad St. Philadelphia 32**	**Pa**
Philco Corp.	4700 Wissahickon Ave, Phila 44	Pa
Precision Apparatus Co. Inc.	70-31 84th St. Glendale 27	NY
Pye & Co. Ltd., W. G.	York St, Cambridge, England	
Racal Instruments Ltd.	Western Rd, Bracknell, Berks, England	
Simpson Electric Co. Div. Amer Gage & Mach Co.	5208 W Kinzie St, Chicago 44	Ill
Smith-Florence, Inc.	4228 23 Ave, W, Seattle	Wash
Sorensen & Co. Inc.	Richards Ave, South Norwalk	Conn
Southern Instruments, Ltd.	Frimley Rd, Camberley, Surrey, England	
Systron-Donner Corp.	950 Galindo St, Concord	Cal
Technology Instrument Corp.	531 Main St, Acton	Mass
Telectro Industries Corp.	35-16 37th St, LIC 1	NY
TERMINAL RADIO INTERNATIONAL LTD.		
Adv. Pgs. 276-O-276R	**240 W 17th St. New York 11**	**NY**
Trio Laboratories, Inc.	Plainview	NY
Triplett Electrical Instrument Co.	286 Harmon Rd, Bluffton	Ohio
Venner Electronics Ltd.	Kingston By-Pass, New Malden, Surrey, Eng	
WELCH MFG. CO., W.M. Adv Pg 214	**1515 Sedgwick St. Chicago 10**	**Ill**
Westinghouse Elec Corp, Instrument Dept	Newark	NJ

WASTE-DISPOSAL EQUIPMENT

See Also SERVICES: WASTE DISPOSAL

AMF ATOMICS, INC. DIV. AMERICAN MACHINE & FOUNDRY CO.		
Adv Pg 249	**261 Madison Ave. New York 16**	**NY**
AMERAY CORP. Adv Pg 114	**Route 46, Kenvil**	**NJ**
ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI,		
Adv Pg 276AA	**Charleroi, Belgium**	
Badger Mfg. Co.	230 Bent St. Cambridge	Mass
Beck & Assocs., R. W.	1500 Tower Bldg, Seattle 1	Wash
Bio-Rad Laboratories	1257 S 32nd St, Richmond	Cal
Chicago Bridge & Iron Co.	332 S Michigan Ave, Chicago 4	Ill
Chiyoda Chemical Eng. & Const. Co Ltd	1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Japan	
Cleaver-Brooks Special Products Inc.	225 N Grand Ave, Waukesha	Wis
Coastwise Marine Disposal Co.	Box 43556, Hyde Park Sta, L A 62	Cal
Cochrane Corp.	3214 17th St, Philadelphia 32	Pa
Combustion Engineering, Inc.	200 Madison Ave, New York 16	NY
Dravo Corp.	Dravo Bldg, Pittsburgh 22	Pa
Edlow Lead Co.	729 Bank St, Columbus 16	Ohio
FLIGHT REFUELING INC. Adv Pg 133	**Box 1701, Baltimore 3**	**Md**
Fraser & Co. Ltd., W. J.	Harold Hill, Romford, Essex, England	
GRISCOM-RUSSELL CO. Adv Pg 217	**Massillon**	**Ohio**
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave, Cicero 50	Ill
Ionics Inc.	152 6th St, Cambridge 42	Mass
Irwin & Partners Ltd., E. G.	2 Princes Row, Buckingham Palace Rd, London, SW1, England	
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	**170 W Providencia, Burbank**	**Cal**
Miller & Son, Inc., Franklin P.	36 Meadow St, E Orange 36	NJ
Minn-Honeywell Military Prods Group	2600 Ridgway Rd, Minneapolis 13	Minn
New England Tank Cleaning Co.	135 1st St, Cambridge 41	Mass
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	**5 New St. White Plains**	**NY**
Nuclear Engineering Co. Inc.	65 Ray St, Box 218, Pleasanton	Cal
PACIFIC COAST ENGINEERING CO.		
Adv Pg 53	**PO Drawer E, Alameda**	**Cal**
Permutit Co. Div. Pfaudler Permutit Inc.	50 W 44th St, New York 36	NY
PINTSCH BAMAG AG, Adv Pg 276C	**Postfach 11, Butzbach, Germany**	
Plastimayd Corp.	2204 SE 7th Ave, Portland 14	Ore
Pritchard & Co., J. F.	4625 Roanoke Pkwy, Kansas City	Mo
Radiation Products, Inc.	Ft. 40 Rd, Flushing 52	NY
Rascher & Betzold, Inc.	730 N Franklin St, Chicago 10	Ill
RELIANCE INCORPORATED, Adv Pg 261	**1210-1212 Adams Ave. Phila 24**	**Pa**
SAINT GOBAIN, Adv Pg 231	**23 Blvd. Georges Clemenceau, Courbevoie, Seine, France**	
Simplex Valve & Meter Co.	7 E Orange St. Lancaster	Pa
Southwestern Engineering Co.	4800 Santa Fe Ave, Los Angeles 58	Cal
Stanray Corp.	200 S Michigan Ave, Chicago 4	Ill
TECHNICAL ASSOCIATES, Adv Pg 41	**140 W Providencia Ave. Burbank**	**Cal**
Thermal Research & Engineering Corp.	750 Brook Rd, Conshohocken	Pa
Thompson, Ltd., John	Wolverhampton, England	
TOKYO SHIBAURA ELECTRIC CO., LTD. Adv Pg 276D	**12 Yurakucho 1-Chome, Chiyoda-ku, Tokyo, Japan**	
Wallace & Tiernan, Inc.	25 Main St, Belleville 9	NJ

WASTE TREATMENT—RADIOACTIVE

See SERVICES: WASTE TREATMENT, RADIOACTIVE

WATER CONDITIONERS
See Also DEMINERALIZERS
ION-EXCHANGE EQUIPMENT

ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
American Sterilizer Co.	Box 620, Erie	Pa
BARNSTEAD STILL & STERILIZER CO.		
Adv Pg 44	84 Lonesville Terr. Boston 31	Mass
Belco Ind Equip Div Bogue Elec Mfg. Corp.	100 Pennsylvania Ave. Paterson	NJ
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
Chem-Pure Service Co.	762 Industrial Rd. San Carlos	Cal
Cochrane Corp.	3214 17th St. Philadelphia 32	Pa
Crystal Research Labs., Inc.	29 Allyn St. Hartford	Conn
Dearborn Chemical Co.	Merch. Mart Plaza, Chicago 54	Ill
Dorr-Oliver Inc.	77 Havemeyer Ln. Stamford	Conn
ELGIN SOFTENER CORP. Adv Pg 265	179 N Grove Ave. Elgin	Ill
Fischer & Porter Co.	50 Warminster Rd. Warminster	Pa
General Biochemicals, Inc.	Laboratory Pk. Chagrin Falls	Ohio
HAGAN CHEMICALS & CONTROLS, INC.		
Adv. Pgs. 120, 121	Box 1346, Pittsburgh 30	Pa
ILLINOIS WATER TREATMENT CO.		
Adv Pg 240	840 Cedar St. Rockford	Ill
Industrial Filter & Pump Mfg. Co.	5900 Ogden Ave. Cicero 50	Ill
Infilco, Inc.	Box 5033, Tucson	Ariz
Ionics Inc.	152 6th St. Cambridge 42	Mass
Monsanto Chemical Co. Plastics Div.	600 Monsanto Ave. Springfield 2	Mass
Oakite Products, Inc.	19 Rector St. New York 6	NY
Permutit Co. Div. Pfaudler Permutit Inc.	50 W 44th St. New York 36	NY
Philadelphia Quartz Co.	1146X Public Ledger Bldg. Phila. 6	Pa
Precision Chemical Pump Corp.	1396 Main St. Waltham	Mass
SAINT GOBAIN, Adv Pg 231	23 Blvd. Georges, Clemenceau, Courbevoie, Seine, France	
Steinmuller GmbH, L. & C.	Gummersbach, Rheinland, Germany	
Thompson, Ltd., John	Wolverhampton, England	
Wallace & Tieman, Inc.	25 Main St. Belleville 9	NJ

WATER—DISTILLED

Badger Mfg. Co.	230 Bent St. Cambridge	Mass
Cleaver-Brooks Special Products Inc.	225 N Grand Ave. Waukesha	Wis
Ionics Inc.	152 6th St. Cambridge 42	Mass

WATER—HEAVY
See Also ISOTOPES—STABLE

Abbott Laboratories	Box 1008, Oak Ridge	Tenn
Air Liquide	75 Quai d'Orsay, Paris, France	
BARNSTEAD STILL & STERILIZER CO.		
Adv Pg 44	84 Lonesville Terr. Boston 31	Mass
Bio-Rad Laboratories	1257 S 32nd St. Richmond	Cal
ISOTOPES SPECIALTIES CO. DIV. NUCLEAR CORP. OF AMERICA,		
Adv Pg 128	170 W Providencia, Burbank	Cal
Mackay, Inc., A. D.	198 Broadway, New York 38	NY
NUCLEAR DEVELOPMENT CORP. OF AMERICA,		
Adv Pg 32	5 New St. White Plains	NY
PINTSCH BAMAG AG, Adv Pg 276C	Postfach 11, Butzbach, Germany	
SHOWA DENKO K. K. Adv Pg 276W	34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Japan	
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal

WATER MONITORS—RADIOACTIVITY
See Under MONITORS—RADIATION

WELDING EQUIPMENT
See Under FABRICATING EQUIPMENT
SERVICES: WELDING, NUCLEAR

WELL-LOGGING EQUIPMENT
See Also SERVICES: WELL-LOGGING

AMTON ELECTRONIC LABS. INC.		
Adv Pg 261	1226-38 Flushing Ave. Brooklyn 37	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Ball Brothers Research Corp.	Boulder Industrial Pk. Boulder	Colo
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
HIGH VOLTAGE ENGINEERING CORP.		
Adv Pg 146	5 Bedford St. Burlington	Mass
KAMAN NUCLEAR, Adv Pg 238	Box 3217, No. End Sta. Colorado Springs	Colo
Miles Hivolt Ltd.	Old Shoreham Rd, Shoreham-by-Sea, Sussex, England	
Nihon-Musen, K. K.	930 Kamirenjaku, Mitaka, Tokyo, Jap	
Nuclear Research Applications Ltd.	Bell St. Reigate, Surrey, England	
Transformer Electronics Co.	Boulder Ind. Park, Boulder	Colo
Uranium Instruments Co.	Box 1191, Grand Junction	Colo
Walsh Associates, Charles	Box 244, Deerfield	Ill

WINDOWS—COUNTER

Alexander Vacuum Research Inc.	285 Madison Ave. New York 17	NY
AMPEREX ELECTRONIC CORP.		
Adv Pg 143	230 Duffy Ave. Hicksville	NY
ATOMIC DEVELOPMENT & MACHINE CORP.		
Adv Pg 128	15-04 130 St. College Point 56	NY
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
FORRO SCIENTIFIC CO. Adv Pg 236	833 Lincoln St. Evanston	Ill
FRIESEKE & HOEPFNER GmbH,		
Adv Pg 276H	Erlangen-Bruck, Germany	
har - D - cal. Nuclear Div.	Box 455 Williston	SC
JOHNSTON LABS. INC., WILLIAM H.		
Adv Pg 90	3617 Woodland Ave. Baltimore 15	Md
La Radiotechnique	130, Av. Ledru-Rollin-Paris 11, France	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
RADIATION COUNTER LABS. INC.		
Adv Pg 39	5122 W Grove St. Skokie	Ill
REUTER-STOKES ELECTRONIC COMPONENTS, INC.		
Adv Pg 226	2149 Hamilton Ave. Cleveland 14	Ohio
SHARP LABORATORIES, INC.		
Adv Pg 248	Box 1302, La Jolla	Cal
U. S. NUCLEAR CORP. Adv Pg 262	801 N Lake St. Box 208, Burbank	Cal

WINDOWS—SHIELDING
See SHIELDING—RADIATION, WINDOWS

WIRE & CABLE—RADIATION-RESISTANT

Aerialite, Ltd. Castle Wks.	Stalybridge, Cheshire, England	
Aero Research Instrument Co. Inc.	315 N Aberdeen St. Chicago 7	Ill
Aluminum Co. of America	1501 Alcoa Bldg. Pittsburgh 19	Pa
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Bleiwerk Goslar GmbH	Goslar, Germany	
Bram Metallurgical-Chemical Co.	820 65th Ave. Philadelphia 26	Pa
Brand, William-Rex Div. Am. Enka Corp	31 Sudbury Rd. Concord	Mass
British Insulated Callender's Cables, Ltd,	21 Bloomsbury St. London, WC1. Eng	
Brown Ind. Ltd., David	Hampson St. Manchester, England	
Canadian GE Co. Ltd.	107 Park St. Peterborough, Ont Can	
Canadian Vickers Ltd.	Box 550, Pl. D'Armes Sta. Montreal, Que Canada	
Dale Products, Inc.	Box 468, Columbus	Neb
Electric Autolite Co.	Toledo 1	Ohio
Emerson Radio & Phonograph Corp. Govt. Electronics Div.	1140 East-West Hwy. Silver Spring	Md
Geipel Ltd., William, Vulcan Wks.	156/170 Bermondsey St. London, SE1, Eng	
General Electric Co. Lamp Metals & Components Dept.	21800 Tungsten Rd. Cleveland 17	Ohio
General Electric Co. Wire & Cable Dept.	1285 Boston Ave. Bridgeport 2	Conn
GENERAL ELECTRIC CO. LTD. OF ENGLAND,		
Adv Pg 276BB	Erith, Kent, England	
Gourock Ropework Co. Ltd.	92 Bay St. Port Glasgow, Scotland	
Harco Laboratories, Inc.	77 Olive St. New Haven	Conn
Haveg Industries, Inc.	900 Greenbank Rd. Wilmington 8	Del
International Shielding Industries	Foot of West St. Wilmington	Del
Knapp Mills Inc.	23-15 Borden Ave. LIC	NY
Lewis Engineering Co.	339 Church St. Naugatuck	Conn
Marisel & Sons, L. Frank	School House Ln. Norristown	Pa
Minn-Honeywell Reg Co. Con Dev Div.	2753 4th Ave. S. Mnpls 8	Minn
Nydqvist & Holm Aktiebolag	Trollhatten, Sweden	
Officine Ing. Demichelis & C.	Via Bistolfi 31, Milan, Italy	
PACIFIC COAST ENGINEERING CO.		
Adv Pg 52	PO Drawer E, Alameda	Cal
Phelps Dodge Copper Products Corp.	300 Park Ave. New York 22	NY
RF Products Div. Amphenol-Borg	33 E Franklin, Danbury	Conn
Radiation Applications, Inc.	36-40 37th St. Long Island City 1	NY
Raychem Corp.	Oakside at Northside, Redwood City	Cal
REUTER-STOKES ELECTRONIC COMPONENTS, INC.		
Adv Pg 226	2149 Hamilton Ave. Cleveland 14	Ohio
Revere Corp. of America	Wallingford	Conn
Robatel & Mulatier	59 A 69 Rue Baraban, Lyon, France	
Scintilla Div. Bendix Corp.	Sidney	NY
Sequoia Wire & Cable Co. Sub. Anaconda Wire & Cable Co.	25 Broadway, New York 4	NY
Simplex Wire & Cable Co.	79 Sidney St. Cambridge 39	Mass
Sprague Electric Co.	Marshall St. North Adams	Mass
Tech Wire Associates, Inc.	Commercial Ave. Moonachie	NJ
TELEFLEX INC. Adv Pg 118	Church Rd. North Wales	Pa
U. S. STEEL CORP. Adv. Pgs. 56, 57	525 Wm. Penn Pl. Pittsburgh 30	Pa
WESTINGHOUSE ELECTRIC CORP. ELECTRONIC TUBE DIV.		
Adv. Pgs. 82, 83, 138, 139	Box 284, Elmira	NY

X-RAY DIFFRACTION APPARATUS

A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
Atomium Corp.	940 Main St. Waltham	Mass
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass

X-RAY EQUIPMENT

Engis Equipment Co.	431 S Dearborn St. Chicago	Ill
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
HAMNER ELECTRONICS CO.		
Adv. Pg. 2nd Cover	Box 531, Princeton	NJ
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
Jarrell-Ash Co.	26 Farwell St. Newtonville 60	Mass
Labgear Ltd. Nucleonics Div.	Cromwell Rd. Cambridge, England	
Lab. Prof. Dr. Berthold	Calmbacher Str. 22, Wildbad Im Schwarzwald, Germany	
Metrix Instruments Ltd.	54 Victoria Rd. Surbiton, Surrey, Eng	
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Mitchell Radiation Products Corp.	E Washington St. Norristown	Pa
Philips Electronic Instruments	750 S Fulton Ave. Mt. Vernon	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
RADIATION INSTRUMENT DEVELOPMENT LAB.		
Adv. Pgs. 129, 276I	61 E North Ave. Northlake	Ill
RADIO CORP. OF AMERICA, INDUSTRIAL ELECTRONIC PRODS.		
Adv Pg 70	Front & Cooper Sts. Camden 2	NJ
St. John X-Ray Laboratory	Califon	NJ
TOKYO SHIBAURA ELECTRIC CO., LTD.	12 Yuraku-cho 1-Chome, Chiyoda-ku,	
Adv Pg 276D	Tokyo, Japan	
20th Century Electronics Ltd.	King Henry's Dr. New Addington, Croydon, Surrey, England	
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
X-Ray Dept. General Electric Co.	4855 Electric Ave. Milwaukee	Wis

X-RAY EQUIPMENT—INDUSTRIAL
See Also RADIOGRAPHIC EQUIPMENT—X-RAY

A.E.I. LTD. INSTRUMENTATION DIV.		
Adv Pg 276G	Crown House, Aldwych, London WC2	Eng
ALLIS-CHALMERS MFG. CO.		
Adv. Pgs. 45, 47	935 S 70th St. Milwaukee 1	Wis
Andel & Co. Inc.	5218 N Kedzie Ave. Chicago 25	Ill
BAIRD-ATOMIC, INC. Adv Pg 65	33 University Rd. Cambridge 38	Mass
Biotronics Labs. Inc.	Box 744, Sta. B, Montreal 2, P.Q. Can	
Bracke-Seib X-Ray Co. Inc.	16 Pelham Bay Park W. Pelham Manor	NY
CURTISS-WRIGHT CORP. PRINCETON DIV.		
Adv Pg 211	Box 110, Princeton	NJ
Daystrom, Inc. Weston Instruments Div.	614 Frelinghuysen Ave. Newark 12	NJ
Gamma Industries, Inc.	Box 2543, Baton Rouge	La
GENERAL ELECTRIC CO. APPARATUS SLS. OFF.		
Adv. Pgs. 95, 97, 99, 101	1 River Rd. Schenectady 5	NY
Gilardoni S.p.A.	Via Statale, Mandello Lario, Como	Italy
Greene Testing Labs, Inc., Arnold	6 Huron Dr. Natick	Mass
HARSHAW CHEMICAL CO. Adv Pg 78	1945 E 97th St. Cleveland 6	Ohio
HIGH VOLTAGE ENGINEERING CORP.		
Adv Pg 146	5 Bedford St. Burlington	Mass
Hilger & Watts, Ltd.	98 St. Pancras Way, London NW 1, Eng	
Hitachi, Ltd.	1-4 Marunouchi, Chiyoda-ku, Tokyo	Jap
LIEBEL-FLARSHEIM CO. DIV. RITTER CO. INC.		
Adv Pg 54	400 West Ave. Rochester	NY
Metal & Pipeline Endurance Ltd.	30 London Rd. Knebworth, Herts, England	
Miles Hivolt Ltd.	Old Shoreham Rd. Shoreham-by-Sea, Sussex, England	
Mitchell Radiation Products Corp.	E Washington St. Norristown	Pa
Mullard Equipment Ltd.	Torrington Pl. London WC1, England	8569
Norair, Div. Northrup Corp.	1001 E Broadway Hawthorne	Cal
Pantak Ltd.	Vale Rd. Windsor, Berks, England	
Philips Electronic Instruments	750 S Fulton Ave. Mt. Vernon	NY
PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.		
Adv Pg 267	Eindhoven, The Netherlands	
Picker & Harting Vertrieb GMBH	Espelkamp-Mittwald Krs. Lubbecke, Westfalen, Germany	
PICKER X-RAY CORP. Adv Pg 109	25 S Broadway, White Plains	NY
Pittsburgh Plate Glass Co.	632 Fort Duquesne Blvd. Pittsburgh 22	Pa
Radiation Dynamics Inc.	Westbury Industrial Pk. Westbury	NY
Radionics Inc.	Lafayette & Water Sts. Norristown	Pa
Resitron Laboratories, Inc.	2908 Nebraska Ave. Santa Monica	Cal
St. John X-Ray Laboratory	Califon	NJ
Solartron Electronic Group Ltd.	Victoria Rd. Farnborough, Hants, Eng	
Sperry Products Co.	Shelter Rock Rd. Danbury	Conn
TOKYO SHIBAURA ELECTRIC CO., LTD.	12 Yuraku-cho 1-Chome, Chiyoda-ku,	
Adv Pg 276D	Tokyo, Japan	
TRACERLAB INC.		
Adv. Pgs. 49, 130, 276Y	1601 Trapelo Rd. Waltham 54	Mass
Varian Associates	611 Hansen Way, Palo Alto	Cal
VICTOREEN INSTRUMENT CO.		
Adv. Pgs. 112, 113	5800-11 Hough Ave. Cleveland 3	Ohio
Virus KG, Dr.	Bonn, Rosenburgweg 20, Germany	
Westinghouse Electric Corp.	Box 2278, Pittsburgh 30	Pa
Westinghouse Electric Corp. X-Ray Div.	2519 Wilkens Ave. Baltimore 3	Md
X-Ray Dept. General Electric Co.	4855 Electric Ave. Milwaukee	Wis
Zenith Radio Research Corp.	4040 Campbell Ave. Menlo Park	Cal

X-RAY TUBES
See COUNTERS—X-RAY
TUBES—X-RAY

ZINC SULPHIDE
See CHEMICALS

You will find manufacturers listed alphabetically in this section as in the telephone book. Immediately following each manufacturer's name is the address and phone number of the firm's executive office, factory, or main plant . . . all in one, straight, bold-faced line.
Below the manufacturer's name and home office are local sales offices and, or, manufacturer's representatives (names, addresses, and phone numbers) listed alphabetically by states.
In some instances, manufacturers sell multi-product lines in one territory and utilize more than one local office in the area. Local branch offices, in these special instances, will cooperate by referring you to the correct nearby source for answers to your question.
If there is no representative in your territory, we suggest contacting the nearest one to you or the manufacturer's home office.

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	AB SCIENTA	**Kvillegatan 9B, Box 366, Goeteborg, Sweden**	**23 93 11**
	ACF INDUSTRIES, INC.	**750 3rd Ave. New York 17, NY**	**YU6-8600**
Md	ACF Electronics Div.	48 Lafayette St. Riverdale	WA7-4444
Mo	Carter Carburetor Div.	2480 N Spring Ave. St. Louis 7	JE1-2850
NM	Albuquerque Division	340 N San Pedro Dr. Albuquerque	CH7-0361
NY	American Car & Foundry Div.	750 3rd Ave. New York 17	YU6-8600
NY	Shipper's Car Line Div.	750 3rd Ave. New York 17	YU6-8600
Tex	W-K-M Division	Box 2117, Houston 1	CA7-8211
	AEG	**Hochhaus, Frankfurt, Main, Germany**	**60521**
Aust	AEG-Austria GmbH	4 Schellinggasse, Vienna 1	523627
Belg	Gelec	40 Rue Souveraine, Brussels 5	133970
Den	AEG Dansk Elek. Akt.	41 Vester Farimagsgade, Copenhagen	CE5000
Fin	Sahkoliikeiden O. Y.	Satamakatu 4, Helsinki	11501
Fr	Georges Joffe	6 Rue de Madrid, Paris 8	LA40-84
Ital	Comar SpA	12 Via G. B. Pirelli, Milano	652351
Neth	N. V. Elec Maatschappij AEG	22-26 Frederiksplein, Amsterdam C	62911
Nor	EGA Elektro-Generator Aksjeselskap	11 Ovre Vollgatan, Oslo	425820
Port	AEG Lusitana de Elect. S.A.R.L.	12/16 Rua dos Fanqueiros	366201
Spn	AEG Iberica de Electricidad S. A.	17 P. de Calvo Sotelo, Madrid	312900
Swed	Elektriska Aktiebolaget AEG	21 Sveavagen, Stockholm 3	225800
Swit	Elektron A.G.	31 Seestr. Zurich 27	255910
	A.E.I. LTD.	**33 Grosvenor Pl. London SW1, Eng**	**BE1234**
NY	Picker X-Ray Corp.	25 S Broadway, White Plains	
Braz	A E I do Brasil Ltd.	Rua Uruguaiana 55, Rio de Janeiro	
Can	A E I (Canada) Ltd.	212 King St. W, Toronto 1, Ontario	EM4-6167
Can	A E I (Canada) Ltd.	562 Montee de Liesse, Montreal	RI7-0677
Can	A E I (Canada) Ltd.	1030 W Georgia St. Vanc. 5 BC	MU3-8108
	A.E.I. LTD. INSTRUMENTATION DIV.	**Crown House, Aldwych, London WC2, Eng**	**TE8040**
	A.M.F. ATOMICS CANADA LTD.	**Port Hope, Ont. Can.**	**TU5-4537**
NY	American Machine & Foundry Co.	261 Madison Ave. New York	MU7-3100
NY	AMF International	261 Madison Ave. New York	MU7-3100
	AMF ATOMICS INC, DIV. AMERICAN MACHINE & FOUNDRY CO	**261 Madison Ave., New York 16, NY**	**MU7-3100**
Cal	AMF Atomics, Inc.	7046 Hollywood Blvd. Los Angeles 28	HO2-7245
Conn	Greenwich Engineering Div.	11 Bruce Pl, Greenwich	NO1-7400
Conn	AMF Atomics Div.	140 Greenwich Ave. Greenwich	NO1-7400
DC	AMF Atomics, Inc.	1701 K St. NW, Washington 6	ME8-6505
Ill	Mechanics Research Div.	7501 N Natchez Ave. Niles	NI7-7000
Ohio	AMF Atomics, Inc.	333 W 1st St. Dayton	BA2-8659
Va	Alexandria Div.	1021 N Royal St. Alexandria	KE8-7221
	ABBEON SUPPLY CO.	**179-15 Jamaica Ave. Jamaica 32, NY**	**AX7-5600**
	ABBOTT LABORATORIES	**Box 1008, Oak Ridge, Tenn**	**5-3545**
Cal	Abbott Laboratories	2850 E 44th St. Los Angeles	LU1-6138
Colo	Abbott Laboratories	6090 E 39th St. Denver	DE3-5441
Fla	Abbott Laboratories	1502 Jessie St. Jacksonville	EL6-1506
Ga	Abbott Laboratories	730 Ponce de Leon Pl. NE, Atlanta	TR2-1156
La	Abbott Laboratories	916 Dakin St. New Orleans	VE3-5836
Md	Abbott Laboratories	1201-68th St. Baltimore	MU6-4405
Minn	Abbott Laboratories	1240 La Salle Ave. Minneapolis	FE6-2606
Mo	Abbott Laboratories	10623 Baur Blvd. St. Louis	WY3-4066
NY	Abbott Laboratories	100 Abbott Mall, Buffalo	KE7200
Ohio	Abbott Laboratories	1801 Dana Ave. Cincinnati	RE1-7900
Tex	Abbott Laboratories	8001 Empire Freeway, Dallas	FL7-4501
Wash	Abbott Laboratories	971 Thomas St. Seattle	MA4-1933
	ABRAMS INSTRUMENT CORP.	**600 E Shiawassee St. Lansing, Mich**	**IV6-9441**
Cal	Instrumentation Sales, Inc.	5002 Crenshaw Blvd. Los Angeles 43	AX2-0895
Colo	Longstreet-Smith Assoc. Inc.	1013 15th St. Denver	KE4-5091
DC	F. R. Jodon, Inc.	8510 Beech Tree Rd. Washington 14	EM5-1515
Ga	C. M. Sallee & Associates	Box 3696, Atlanta 16	JA3-1105
Mass	Forbes Engineering	19 Flint St. Salem	PI4-1603
Mich	Product Sales	201 E Grand River, E Lansing	ED2-6451
Minn	Scott Electronics	6500 Xerxes Ave. S, Minneapolis 23	WA6-3019
Mo	Thunderbird Engineering Sales	7811 Carondelet Ave. St. Louis 5	PA6-1413
NY	QED Electronic Sales	9 Elm Ave. Mt. Vernon	MO8-3100
Ohio	G. L. Ashby Associates	Talbott Towers, Dayton	BA8-8861
Tex	Southern Ind. Electronics, Inc.	Exchange Park, Dallas 35	FL2-3901
	ABTRONICS, INC.	**64 S P St. Livermore, Cal**	**HI7-4785**
Cal	Ault Associates	120 Santa Margarita, Menlo Park	DA6-1760
Colo	Williams & Associates, Inc.	2261 S Albion St. Denver	EK6-2403
Fla	E. G. Holmes & Associates	1220 Edgewater Dr. Orlando	CH1-2128
Ga	E. G. Holmes & Associates	4969 Roswell Rd. NE, Atlanta 5	BL5-6660
Ill	R. L. Lang & Associates	6733 N Olmsted Ave. Chicago 31	BP4-3610
Mich	Tower Engineering Co.	19364 James Couzens Hwy. Detroit 35	DI1-2332
NJ	G. Curtis Engel & Associates	210 S Broad St. Ridgewood	GI4-1400
NM	Williams & Associates, Inc.	2221 Silver Ave. NE, Albuquerque	AL5-9632
NC	E. G. Holmes & Associates	440 W Market St. Greensboro	BR2-0855
Ohio	Tower Engineering Co.	3808 Linden Ave. Dayton 32	CL6-0931
Tex	A. Barnes Co.	3603 Lemmon Ave. Dallas 19	LA6-8735
Wash	Comptronics	2 Hanford St. Seattle 4	MA4-5135
	ACCURATE SHEET METAL & MFG WORKS	**2336-44 Milwaukee Ave., Chicago 47, Ill**	**EV4-3666**
	ACE ELECTRONICS ASSOC., INC.	**99 Dover St. Somerville 44, Mass**	
Cal	Jackson Edwards Co.	Box 568, N Hollywood	
Cal	McKnight Co.	1436 El Camino Real, Menlo Park	
Conn	Bahr Sales Co.	Spring Valley Rd. Woodbridge	
Fla	George F Bohman	711 Magnolia St, Orlando	
Ill	Ringland M. Krueger Co.	4738 N Harlem Ave. Chicago 31	
Mass	Noone Co.	Box 123, Cambridge 40	
Minn	Hamilton & Bayle Assoc. Inc.	3359 Republic Ave. Minneapolis	
NY	O.F. Masin Co.	1 Wolf's Ln. Pelham	
NY	William Wall Co.	Box 26, Boston	
Ohio	Callaghan-Bach, Inc.	2209 Losantville Rd. Cincinnati 13	
Pa	Andco Sales-Engineering, Inc.	5823 Greene St. Philadelphia	
Tex	Air Equipment Sales Co.	2608 Inwood Ave. Dallas 35	
	ACE ENGINEERING & MACHINE CO., INC.	**Tomlinson Rd. Huntingdon Valley, Pa**	**WI7-1900**
Cal	Premmco, Inc.	5470 Valley Blvd, Los Angeles	CA3-0167
Cal	Premmco of Northern Cal	2406 Lincoln Ave. Alameda	LA3-9496
Colo	Alldredge & McCabe	847 E 17th Ave. Denver	AL5-7496
DC	H. W. Kenny	Tomlinson Rd. Huntingdon Valley, Pa	WI7-1900

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Ill	Universal Sales & Supply, Inc.	14 Industrial Rd. Addison	KI3-6405
Kan	Kemco, Inc.	6427 E Kellogg St. Wichita	MU4-8224
NY	E. Kesney	3577 Carrolton Ave. Wantagh	SUI-2568
Tex	Kemco, Inc.	1618 W 6th St. Irving	FL1-5900
Wash	Builders Specialties, Inc.	3601 Greenwood Ave. Seattle	ME3-4300

ACETO CHEMICAL CO., INC. . . 40-40 Lawrence St. Flushing 54, NY

ACHESON COLLOIDS CO. . . . . 1635 Washington Ave. Port Huron, Mich

Cal	C.L. Haserot	2736 E Walnut St. Pasadena	MU1-7819
Ill	Bauer/Egloff	510 N Dearborn St. Chicago 10	MO4-2802
Mass	W F Sentner	89 Broad St. Boston 10	HA6-6979
Mich	H.J. Lang	415 Brainard, Detroit 1	TE3-9028
Mo	W.E. Lang	6523 Nottingham Ave. St. Louis 9	FL3-4868
NY	W.D. Signer Jr.	907 Monroe Ave. Rochester 20	GR3-2536
NY	F.H. Mrozek	111 E 1st Ave. Roselle, NJ	CH1-0952
Ohio	D.M. Conroy	12429 Cedar Rd. Cleveland 6	YE2-7151
Pa	M.E. Dougherty	1426 Land Title Bldg. Philadelphia 10	LO7-7113
Pa	C.J. Gallagher	530 6th Ave. Pittsburgh 19	AT1-9651

ACME ELECTRIC CORP. . . . . 31 Water St. Cuba, NY . . . . . Cuba 4

Cal	K. L. Burton	1834 Valleta Dr. San Pedro	TE3-4211
Conn	R. Chambers	29 Bromfield St. Wollaston 70	GR2-3086
DC	C. T. Little	Box 248, Vienna, Va.	DU5-8990
Ga	Hopper & McCoy	870 Northside Dr. NW, Atlanta 18	TR2-5803
Ill	Ross Ind. Prods. Inc.	5306 W Lawrence Ave. Chicago 30	MU5-0660
Mass	R. Chambers	29 Bromfield St. Wollaston 70	GR2-3086
Mich	H. Meltvedt	17404 11 Mile Rd. Roseville	PR5-6884
NY	A. W. King	305 Prospect, South Orange, NJ	SO3-3554
NC	Barber-Ayers & Assoc.	826 Goldsboro St. Greensboro	BR3-9108
Ohio	Baehr-Greenleaf & Assoc. Inc.	14700 Detroit Ave. Cleveland 7	AC1-9030
Pa	R. J. Donovan	419 Hillside Rd. King of Prussia	BR9-2341
Tex	F. Army	4209 Parry Ave. Dallas 10	TA1-0567

ACME ELECTRIC HEATING CORP. 99 Reading St. Roxbury 19, Mass HI2-4125

ACME PROTECTION EQPT. CO. 1299 E Kalamazoo St, South Haven, Mich

Fla	Safety Equipment Co of Fla.	109 Hamiller Ave. Tampa	
Ill	Universal Safety Equipment Co.	5115 Diversey Ave. W Chicago 39	
Mass	General Equipment Corp.	261 Franklin St. Boston 10	
Mich	Aden Supply Co.	1767 Whitmore Ave. NW, Grand Rapids 4	
Minn	Continental Safety Eqpt. Co.	1551 Selby Ave. St. Paul 4	
Mo	Safety, Inc.	3230 Olive St. St. Louis 3	
NJ	IPCO Safety Prod. Co.	400 S Jefferson St. Orange	
NY	The Watson Sales Co. Inc.	1362 Kenmore Ave. Buffalo 23	
Pa	Guardian Safety Equipment Co.	214-216 S 45th St. Philadelphia	
Tenn	Safety Equipment Distr. Co.	832 W Main Ave. Knoxville	
Tex	Guardian Safety Equipment Co.	Box 13384, Houston 19	
Can	Fleck Bros. Ltd.	110 Alexander St. Vancouver, B C	

ACOUSTICA ASSOCIATES, INC. 5305 W 102 St. Los Angeles 45, Cal OR0-2840

Cal	Dyna Sales Co.	Box 6757, Los Angeles 22	AN8-1175
Cal	Long & Associates, Inc.	505 Middlefield Rd. Redwood City	EM9-3324
Cal	Halbar Associates	1001 Glendale Blvd. Los Angeles 26	DU2-8087
DC	J. J. Maguire Co.	742 Investment Bldg. Washington	NA8-4247
La	H. Hill Associates, Inc.	442 Intl. Trade Mart, New Orleans	MA2-638
Mass	Sessions-Gifford Co., Inc.	Box 1201, Everett 49	
Minn	C. G. Crosby & Associates, Inc.	Box 6355, Richfield Sta. Minneapolis	TA2-0353
NJ	J. Clarke Co.	422-73rd St. North Bergen	UN5-5851
NY	Scobell Chemical Co., Inc.	1 Rockwood Pl. Rochester	BR1-8080
NY	G. Davis Co.	111 S Church St. Schenectady	
Okla	B.R. Svejkowsky Co.	3900 NW 34th St. Oklahoma City	
Tex	Collins Radio Co.	Box 1891, Dallas 21	

ADAMS & WESTLAKE CO. . . . . 1025 Michigan St. Elkhart, Ind CO4-1141

Cal	The A.W. Nash Co.	2112 S Atlantic Blvd. Los Angeles 22	AN9-7304
Cal	The T.R. Routh Co.	1003 California Dr. Burlingame	DI2-4147
Colo	Allen & Co.	Denver Club Bldg. Denver 2	AC2-2236
Mass	Leo C Pelkus & Co. Inc.	683 Atlantic Ave. Boston 11	LI2-1941
Mich	Robert H Jackson	10534 Ludlow, Huntington Woods	LI2-5059
Mo	Wells White Co.	6625 Delmar Blvd. St. Louis 5	PA7-7622
NY	E.W. Rowland Associates	90 West St. New York 6	WO4-7188
NY	Wally B Swank, Inc.	2310 Bellevue Ave. Syracuse 4	GR8-2142
Pa	R.F. Clark Co.	Clark Bldg. Pittsburgh 22	AT1-8089
Pa	W Henry Cordray Sales Co.	Barclay Bldg. Bala Cynwyd(Philadelphia)	MO4-3344
Wash	C B Parsons & Co.	3028 1st Ave. Seattle 1	MU3933
Tex	The William E Brice Co.	303 Bastrop, Houston 3	CA2-7321

ADMIRAL CORP. . . . . 3800 W Cortland St. Chicago 47, Ill SP2-0100

Cal	J. W. Thompson	6876 La Jolla Dr. Riverside	RA3-6451
DC	J. F. Gilbarte	1500 Mass Ave. Washington 5	AD4-3004
Mass	S. Friedricks	21 Walker Rd. Manchester	JA6-1159
NJ	R. Gilbarte	35 Maryland Ave. W Long Branch	CA2-5076
NY	T. P. Carville	812 Shaw St. Utica	BE3-1669
Ohio	P. R. Donovan	384 W 1st St. Dayton 2	BA3-3823

AD-O-PLASTIC . . . . . 240 Amboy Ave., Woodbridge, NJ HE4-6500

Cal	American Safety Products Co.	3197 Cahuenga Blvd. Los Angeles	HO9-0444
Conn	Aborn Safety Equipment	2 Eld St. New Haven	
Fla	Car-Mad Safety Equipment, Inc.	570 N Indian Rocks Rd, Largo	JU4-1892
Mass	Hub Safety Equipment, Inc.	10 Nightingale Path, Newton Centre	DE2-5845
Minn	Fire & Safety Inc. of Minn	1906 S Broadway, Rochester	AT9-5476
Mo	Reis Equipment Co.	1417 Tower Grove, St. Louis	JE5-2772
NY	R. W. Adair Co. Inc.	Avoca	AV2227
Ohio	Safety & Eng. & Appliances	1704 Spring Rd. Cleveland	SH9-1111

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Tenn	Smalling & Co.	604 Demonbreun St. Nashville	AL6-2981
Tex	Ballard Distributing Co.	2423 Times Blvd. Houston	JA3-3141
Wis	W. A. Vorpahl Co.	1148 Velp, Greenbay	HE5-6423
Can	Safety Supply Co.	214 King St. E, Toronto, Ont	EM3234

ADVANCE COMPONENTS LTD. Roebuck Rd. Hainault, Essex, Eng

Mass	Gen Measurements Co. Inc.	1108 Beacon St. Newton Highlands	

ADVANCED INSTRUMENTS, INC. . . . . 45 N Kenneth St., Newton Highlands 61, Mass DE2-8200

Cal	Braun-Knecht-Heimann Co.	1400 16th St. San Francisco 19	HE9-9311
Cal	Medical Laboratory Supply Co.	19303 Citonia St. Northridge	DI4-3824
Ill	Elmac Engineering	10027 S Paxton Ave. Chicago 17	RE4-3700
La	Delta Electronics, Inc.	621 Homedale Ave. New Orleans	AU-3736
Minn	Medtronic	818 19th Ave. NE, Minneapolis 18	ST1-2718
Mo	Medhon Associates	600 Union Blvd. St. Louis 8	FO7-3392
Neb	Farrali Instrument Co.	W Hwy. 30, Grand Island	DU4-1530
Ohio	The Dann Co.	4205 Chester Ave. Cleveland 3	EX1-7240
Ohio	Engineering Specialties	8115 Camargo Rd, Madeira	LO1-6803
Pa	S & S Associates, Inc.	780 W DeKalb Pike, King of Prussia	BR9-7192
Tex	Dallas Radionics	4128 W Jefferson, Dallas 11	FE1-6204
Utah	Intermountain Scientific Supply	561 E 21st St. Salt Lake City 6	HU5-2832

ADVANCED PRODUCTS CO. 59 Broadway, North Haven, Conn CE9-1664

Cal	Haskel Seals	1236 S Central Ave. Glendale 4	
Cal	Haskel Seals	225 11th St. San Francisco 3	
Colo	Lander, Zachary & Peterson Co.	601 S Jason St. Denver 23	
Kan	Wilco, Inc.	228 S Wichita St. Wichita	FE5-7909
Ky	Dixie Bearings, Inc.	3634 Euclid Ave. Cleveland, Ohio	
Md	Herche Steam Packing Co.	514 E Lombard, Baltimore 2	LE9-4320
Ohio	Bearings, Inc.	3634 Euclid Ave. Cleveland 15	UT1-2828
Tex	Triple« Rubber & Supply Co.	Drawer 10815, Houston 18	WA6-4481
Utah	Packing Supply Co.	S 2nd W, Salt Lake City 15	
Wash	Calkins Mfg. Co.	No. 1102 Atlantic, Spokane	
Wash	Spencer A/C Industries, Inc.	8410 Dallas Ave. Seattle 8	
Wis	Robert Kornacki Associates	2333 W Wells St. Milwaukee	DI4-3690

ADVANCED TECHNOLOGY LABS. 369 Whisman Rd. Mountain View, Cal

AD-YU ELECTRONICS LAB. INC. 249 Terhune Ave. Passaic, NJ

Cal	C. A. Stone Assoc.	8971 National Blvd, Los Angeles 34	UP0-7771
Cal	Peninsula Assoc.	1345 Hancock St. Redwood City	EM9-1226
Mass	Saunders & Co.	8 Prospect St. Waltham 54	TW4-6671
Mich	Gaine Engineering	1474 E Outer Dr. Detroit 34	FO6-5353
Mo	Gordon Fixman Engineering Co.	8160 Stanford Ave. St. Louis 30	PA5-5219
NJ	J. Williams Assoc.	50 Main St. Orange	OR5-7199
Pa	Eastern Assoc.	820 Homestead Rd. Jenkintown	TU4-7200
Tex	Francis Assoc.	249 Crestmont Dr. El Paso	JU4-2563

AERIALITE, LTD. CASTLE WKS. Stalybridge, Cheshire, Eng ST2223/8

Eng	Aerialite, Ltd.	11-12 Paddington Green, London, W 2	
Eng	Aerialite Ltd.	Portland Sq. Bristol, Glouc.	
Scot	Aerialite, Ltd.	311 Bell St. Glasgow, C 4	
Eng	Aerialite, Ltd.	355 Deansgate, Manchester, 3	
Eng	Aerialite, Ltd.	248 Barr St. Hockley, Birm.	
Eng	Aerialite, Ltd.	Stepney Bank, Newcastle On Tyne	

AERO RESEARCH INSTRUMENT CO. INC. 315 N Aberdeen St. Chicago 7, Ill TA9-8400

Cal	Cerruti & Assoc.	116 Cypress St. Redwood City	
Cal	R.J. Hudson & Co.	5248 Van Nuys Blvd. Van Nuys	
Fla	Col-Ins. Inc.	5728 Precision Dr. Orlando	
Ind	Pinder Instrument Co.	5305 Hohman Ave. Hammond	
Mo	Maise Equipment Co.	10635 Clayton Rd. St. Louis	
NM	Brooks-Feeger & Assoc.	5510 Domingo Rd. NE, Albuquerque	
NY	Carse Electric Corp.	1044 Broadway, Albany	
Ohio	Kilroy-Whelan Corp.	10 Main St. Chagrin Falls	
Ohio	Kilroy-Whelan Corp.	2801 Far Hills Ave. Dayton	
Pa	Test Equipment Sales Co.	4447 N Bodine St. Philadelphia 40	
Tex	J.K. Moore Co.	3113 Leland Ave. Houston 3	
Wash	B.C. Porter Co.	1209 Poplar Pl. Seattle 44	

AERO SUPPLY MFG. CO., INC. Corry, Pa. 2-8261

Cal	Airsupply-Aero Engrg. Co.	9815 Wilshire Blvd. Beverly Hills	CR4-6641
Cal	Airsupply-Aero Engrg. Co.	Office 207, Town & Country Village	DA6-4186
Cal	Airsupply-Aero Engrg. Co.	3380 Harbor Dr. San Diego	CY8-1121
Ga	Airsupply-Aero Engrg. Co.	3272 Peachtree Rd. NE, Atlanta	CE7-8636
Ill	Airsupply-Aero Engrg. Co.	4302 Warren Ave. Hillside	AU7-5446
Ind	Airsupply-Aero Engrg. Co.	3440 N Meridian St. Indianapolis 8	WA5-3528
Kan	Airsupply-Aero Engrg. Co.	612 S Oliver, Wichita 18	MU3-7518
Md	Airsupply-Aero Engrg. Co.	7215 York Rd. Baltimore	VA3-4101
Mass	Airsupply-Aero Engrg. Co.	14 Spring St. Waltham	TW4-9165
Mo	Airsupply-Aero Engrg. Co.	Box 6247, Lambert Field, St. Louis 21	PE1-5599
NY	Airsupply-Aero Engrg. Co.	220 Old Country Rd. Mineola	FI7-8686
Pa	Airsupply-Aero Engrg. Co.	1510 Russell Rd. Paoli	NI4-1450

AEROGEN CO. LTD. . . . . Anstey Mill Ln Wks. Alton, Hamp, Eng AL2081

AEROJET-GENERAL NUCLEONICS Box 77, San Ramon, Cal VE7-5311

Ala	Aerojet-General Corp.	3312 Memorial Pkwy. SW, Huntsville	JE6-644
Cal	Aerojet-General Corp.	590 N Sepulveda Blvd. El Segundo	OR8-7147
Cal	Aerojet-General Corp.	43321 N Sierra Hwy. Lancaster	WH8-4525
Cal	Aerojet-General Corp.	6352 Irwindale Ave. Azusa	ED4-6211
Cal	Aerojet-General Corp.	6352 Irwindale Ave. Azusa	CU3-6111
Colo	D. E. Snyder	590 N Sepulveda Blvd. El Segundo	OR8-7147
DC	Aerojet-General Corp.	1120 Conn Ave. NW, Washington	FE7-5800

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Mich	AGC c/o General Tire & Rubber Co.	15129 W 8 Mile Rd. Detroit	VE8-8793
NY	Aerojet-General Corp.	821 Franklin Ave. Garden City	PI7-6550
Ohio	Aerojet-General Corp.	340 W 1st St. Dayton	BA4-3532
Wash	AGC c/o Boeing Airplane Co.	Box 3925, Seattle 24	JU6-3340
Eng	Sir Alwyn Crow	136 Marshal Ct. London SW, 1	GR8503
	AEROPROJECTS, INC.	**310 E Rosedale Ave. West Chester, Pa**	**OW6-4710**
	AEROQUIP (CANADA) LTD.	**287 Bridgeland Ave. Toronto 19, Ont. Can**	**RU1-5261**
	AEROQUIP CORP.	**300 S East Ave. Jackson, Mich**	**ST3-2584**
Cal	Aeroquip Corp.	11214 Exposition Blvd. Los Angeles 64	GR8-0921
Del	J. Goodwin	Box 5125, Wilmington	
Ga	J. Harlow	460 Hickory Dr. Marietta	T4962
Ill	Orville Adkins	4919 Oakwood, Downers Grove	WO8-5320
Mich	W. Connolly	16738 E Warren, Detroit 24	TU4-3450
Mo	D. Hardin	1141 S Rock Hill Rd. Webster Groves	WO2-7728
NJ	T. Houle	426 Hickory St. Westwood	NO4-3297
NJ	H. Irons	14 Cedar Tree Ln. Sparta	PA9-6337
Ohio	Aeroquip Corp.	1413 Acorn Dr. Dayton 19	AX8-5264
Pa	W. Godon	141 E 3rd St. Media	LO6-5556
Tex	Aeroquip Corp.	9106 Sovereign Row, Dallas	FL7-6391
Wash	R. Luther	10911 Ranier Ave. Seattle 88	PA2-6349
	AEROQUIP CORP. WESTERN DIV.	**3015 Winona Ave. Burbank, Cal**	**VI9-3101**
Ariz	L. W. Pickens	1411 W Orchid Ln. Phoenix	WI3-8591
Cal	Aeroquip Berkeley	920 Grayson St. Berkeley 2	TH8-8874
Ore	Aeroquip Northwest	635 NW 16th ave. Portland 9	CA6-6021
Wash	R. A. Luther	10911 Rainier Ave. Seattle 88	PA2-6349
	AEROQUIP-MARMAN DIV.	**11214 Exposition Blvd. LA 64, Cal**	**GR8-0921**
Ala	G.R. Barnard	2169 Shadybrook Ln. Birmingham 9	TR9-9498
Ariz	L. W. Pickens	1411 W Orchid Ln. Phoenix	WI3-8591
Cal	R. Yoder	3380 N Harbor Dr. San Diego	CY5-5877
Cal	R. Lee	8 Foothill Park Terrace, Lafayette	YE4-1133
Ill	R.A. Braun	1009 Homestead Rd. LaGrange Park	FL2-4247
Ill	S.E. Wing	6750 N Sauganash, Chicago 46	NE1-0346
Ind	F.B. Stewart	6216 Carrollton, Indianapolis 20	CL1-6688
Mich	W.P. Connolly	16738 E Warren, Detroit 24	TU4-3450
NJ	E.C. Winfield	921 E Glen Ave. Ridgewood	GI5-0630
NY	W.J. Teasdale	Box 57, Lindenhurst	TU8-3020
Tex	W.J. Gates	2850 A W Berry, Fort Worth	WA3-5252
Wash	J. Polizzotto	Box 78, Mercer Island Sta	AD2-6440
	AEROTEC INDUSTRIES, INC., INDUSTRIAL DIV.	**2 Meadow St. S Norwalk, Conn**	**JE1-8400**
Cal	Aerotec Industries, Inc. of Cal	5333 Sepulveda, Culver City	
Fla	Thermix of Florida	Box 48-1337, Miami	
	AEROVOX CORP.	**740 Belleville Ave. New Bedford, Mass**	**WY4-9661**
Cal	Meyer & Ross	113 10th St. San Francisco 3	LA3-0280
Cal	A.J. Rissi	8417 Las Tunas Dr. San Gabriel	CU3-7614
Fla	S.K. Wallace Associates, Inc.	Box 67, Lutz	WE9-3241
Ill	Ellinger Sales Corp.	6540 Northwest Hwy. Chicago 31	RO3-1570
La	E.K. Moore Co.	5864 Louisville St. New Orleans 24	HU8-2407
Mass	Gerber Sales Co.	48 Pearl St. Brookline 46	BE2-2425
Mich	R. Milsk Co.	19371 James Couzens Hwy. Detroit 35	BR3-3652
Minn	F.B. Hill Co.	6110 Excelsior Blvd. Minneapolis 16	WE9-6727
NJ	Simberkoff Sales Co.	68 Hudson St. Hoboken	OL6-5211
NM	R.E. McClendon Co.	915 Yale Blvd. SE, Albuquerque	CH3-4581
Tex	H. Lieberman & Associates, Inc.	6005 Northwood Rd. Dallas 25	EM3-3452
Wash	D. Smith Sales Co.	2320 N 45th St. Seattle 3	ME3-3160
	AINSWORTH & SONS, INC., WM.	**2151 Lawrence St. Denver 5, Colo**	**AL5-1723**
NJ	N. Volpe	3 Lakeview Ave. Boonton	DE4-9080
	AIR CONTROLS, INC.	**2310 Superior Ave. Cleveland 14, Ohio**	**PR1-3188**
	AIR LIQUIDE	**75 Quai d'Orsay, Paris, Fr**	**IN44-30**
	AIR MARINE MOTORS INC.	**369 Bay View Ave., Amityville, NY**	**AM4-3700**
Ariz	R. S. "Stu" Nelson	1828 E Cambridge St. Phoenix	AM6-0614
Colo	Electronic Component Sales, Inc.	2140 S Clermont St. Denver	SK7-1261
Ga	V. A. McCorvey Co.	215 Church St. Decatur	DR7-6167
Ill	R. C. Whitmore & Associates	520 N Michigan Ave. Chicago	MO4-1904
Kan	Halgin Sales Co.	5920 Nall, Mission	RA2-2441
Mass	Cirolia, LeBlanc Sales	885 Main St. Waltham	TW3-2742
Minn	Anderson & Associates	3825 York Ave. N, Minneapolis	JU8-2523
NJ	W. Shulan & Co.	880 Bergen Ave. Jersey City	WO2-0365
NY	M. P. Andrews, Inc.	319 Mott Rd. Fayetteville	NE7-6405
Ohio	G & H Sales Co. Inc.	Box 416, Cincinnati	JE1-0553
Tex	Campion Sales Co.	9002 Chancellor Row, Dallas 35	FL7-4096
Wash	F. H. Haight Co.	3212 E Lake Ave. Seattle 2	EA1818
	AIR-MAZE CORP., SUB. ROCKWELL-STANDARD CORP	**25000 Miles Rd. Cleveland 28, Ohio**	**AX2-4800**
Cal	J.D. Gratiot	3423 Verdugo Rd. Los Angeles	CL6-2191
	AIR POLLUTION CONTROL DIV. JOHN WOOD CO.	**Essex Bldg. Bernardsville, NJ**	**BE8-1211**
Ga	J. R. Davis & Co.	3038 Surrey Ln. Chamblee	GL7-5901
Ind	V. C. Snowberger	5217 Hinesley Ave. Indianapolis	CL5-8086
NJ	Parent & Kirkbride	333 Arch St. Camden	WO4-5256
NJ	C. J. Yamas & Co.	1776 Sleepy Hollow Rd. Plainfield	PL7-6440
NY	Hampton Engineered Equip. Co.	50 Church St. New York	WO4-4985

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	AIR REDUCTION CO., INC.	**150 E 42 St. New York 17, NY**	**MU2-6700**
Ala	Air Reduction Sales Co.	124 S 16th St. Birmingham	FA2-4444
Cal	Air Reduction Pacific Co.	2061 Leonis Blvd. Vernon	LU7-6141
Cal	Air Reduction Pacific Co.	1485 Park Ave. Emeryville	OL2-4100
Cal	Air Reduction Pacific Co.	220 Bush St. San Francisco	SU1-3481
Ill	Air Reduction Sales Co.	3100 S Homan Ave. Chicago	BI7-8100
Mass	Air Reduction Sales Co.	122 Mt. Vernon St. Upham's Corner	GE6-2810
Minn	Air Reduction Sales Co.	2429 University Ave. SE, Minneapolis	FE2-7311
NJ	Air Reduction Sales Co.	181 Pacific Ave. Jersey City	DE3-7100
Ore	Air Reduction Pacific Co.	430 NW 10th Ave. Portland	CA7-2467
Pa	Air Reduction Sales Co.	17th St. & Allegheny Ave. Philadelphia	BA8-2000
Tex	Air Reduction Sales Co.	401 Watson School Rd. Arlington	CR5-3246
Wash	Air Reduction Pacific Co.	3623 E Marginal Way, Seattle	MA2-8260
	AIR-SHIELDS INC	**Hatboro, Pa**	**OS5-5200**
Ill	J. G. Twist Co.	5232 W Diversey Ave. Chicago 39	SP7-2250
Ind	R. O. Whitesell & Assoc.	6620 E Washington St. Indianapolis 19	FL9-5374
Ga	Murphy & Cota	2110 Peachtree Rd. NW, Atlanta	TR6-3020
Mass	Drew Associates, Inc.	56 The Great Rd. Bedford	CR4-7232
Minn	Grant Sales Co.	1415 S 2nd St. Minneapolis 4	FE2-6955
Mo	McDowell-Redlingshafer Sales Co.	1103 Armour St. Kansas City 6	WE1-5622
NY	P. D. Aaron Associates	Professional Bldg. Port Washington	PO7-8480
Pa	A. K. de Sherbinin	824 Mt. Pleasant Rd. Bryn Mawr	LA5-0121
	AIR & REFRIGERATION CORP.	**439 Madison Ave. New York 17, NY**	
Cal	Hess, Greiner & Polland	3440 Sunset Blvd. Los Angeles 26	NO3-3044
Cal	J.O. Martin Co. Inc.	637 Minna St. San Francisco	MA1-2380
Ga	Engineering Sales Co.	1182 W Peachtree St. NW, Atlanta	TR4-3888
Ky	Technical Prods. Service & Sales	Box 1166, Louisville	TW6-8000
NM	Air Equipment Co.	Box 6156, Albuquerque	CH3-6429
NY	Air-Pak Products, Inc.	415 Lexington Ave. New York	MU7-1932
Ohio	Mussun Equipment Co.	1547 E 18th St. Cleveland 14	MA1-5088
Pa	Busch Co.	4907 Penn Ave. Pittsburgh 24	EM2-6060
Pa	Dorn Industrial Equipment Co.	1262 W Chester Pike, Havertown	SU9-4895
Tenn	Vernon S Tupper Co.	Box 1103, Nashville	AL4-6559
Tex	H.O. Knape & Co.	2615 Routh St. Dallas 4	RI7-7596
Wash	Karl H Norby Co.	644 Skinner Bldg. Seattle	MA4-2583
	AIRBORNE ACCESSORIES CORP.	**1414 Chestnut Ave. Hillside 5, NJ**	**MU8-0250**
Ariz	Western Engineering Co.	8905 N 17th Ave. Phoenix	WI4-0431
Cal	Airborne Accessories Corp.	5456 W Washington Blvd. Los Angeles 16	WE8-3227
Cal	Cashin-Tipton & Associates	3270 Rosecrans St. San Diego 10	AC2-0408
Ga	Aeromart	3230 Peach Tree Rd. NE, Atlanta 5	CE3-5519
Mass	General Measurements Co. Inc.	1108 Beacon St. Newton Highlands	WO9-9150
Mich	Willard Spenser Co.	20144 Livernois Ave. Detroit 21	UN3-5189
NY	Lenard Co.	132 Burnet Ave. Syracuse 3	GR9-9191
Tex	Airborne Accessories Corp.	2720 W Mockingbird Ln. Dallas 35	FL7-9236
Wash	Hall Engineering Co.	1430-130th St. NE, Bellevue	GL4-9511
Can	Winnett Boyd Ltd.	745 Mt. Pleasant Rd. Toronto 7, Ont.	HU1-3722
	AIRCRAFT EQUIP. TESTING CO. INC.	**1808 Fleet St. Baltimore 31, Md**	**OR5-8337**
	AIRCRAFT GROUND EQUIPMENT	**160 Blacksworth Rd. Bristol, Eng.**	**BRS-8408**
	AIRCRAFT & MISSILE CONSULTANTS	**2722 Ardmore Ave. Manhattan Beach, Cal**	**FR4-0626**
	AIRCRAFT POROUS MEDIA INC.	**Glen Cove, NY**	
Cal	Rubly Engineering Co.	2140 Westwood Blvd. Los Angeles 25	GR7-6744
Colo	L. Barland	1690 Milwaukee St. Denver	FL5-7718
Conn	Northeast Sales Eng.	3013 Dixwell Ave. Hamden	CH8-4481
Fla	Russell Associates, Inc.	191 W Fairbanks, Winter Park	
Ga	Russell Associates, Inc.	3179 Maple Dr. Atlanta 5	CE7-0788
Kan	D & O Engineering Co.	1610 E Harry St. Wichita	AM2-6214
Md	Russell Associates, Inc.	518 Virginia Ave. Baltimore 4	VA3-3350
Mich	Russell Associates, Inc.	19971 James Couzens Hwy. Detroit 35	VE7-1560
NY	Russell Associates, Inc.	1560 Niagara Falls Blvd. Tonawanda	AT4740
NY	Russell Associates, Inc.	165 Orinoco Dr. Brightwaters	MO6-6500
Ohio	Russell Associates, Inc.	4 Erwin St. Cincinnati 19	WE1-0930
Wash	The Thorson Co.	1767 15th Ave. S, Seattle 44	EA5-5000
	AIRECO, INC.	**2323 Second Ave. Carman, Schenectady, NY**	**EL5-6545**
	AIRFLOW CO	**400 S Stonestreet Ave., Rockville, Md**	**GA4-6166**
Cal	Premmco, Inc.	5540 Valley Blvd. Los Angeles 54	
Cal	Premmco, Inc.	2406 Lincoln Ave. Alameda	
	AIRMATIC SYSTEMS CORP.	**441 Market St. Saddle Brook, NJ**	
Ill	Airmatic Systems Corp.	5875 Lincoln Ave. Chicago 45	LO1-3443
Md	Airmatic Systems Corp.	5409 Gallatin St. Hyattsville	UN4-3789
Mo	Airmatic Systems Corp.	2201-5 Grand Ave. Kansas City 8	VI2-8056
Ore	Columbia Airmatic Co.	4785 SW 26th Dr. Portland 7	CH4-4961
Tenn	B.E. Coleman & Associates	Box 9036, Memphis 17	JA5-1631
Tex	P.E. Ware Co.	3639 S Hampton Rd. Dallas 33	FE7-1321
Tex	Davis Equipment Co.	1404 Dunlavy St. Houston 19	JA2-2711
Can	Kip Kelly, Ltd.	68 Higgins Ave. Winnepeg 2, Man.	WH2-2507
	AIRMATIC VALVE, INC.	**7313 Associate Ave. Cleveland 9, Ohio**	**WO1-5320**
Cal	Blair-Martin Co.	905 Mission St. S Pasadena	MU2-2861
Colo	A. T. Lobel Co.	1700 15th St. Denver	
Ga	Biever Air & Hydraulic Eqpt.	284 Paces Ferry Rd. NE, Atlanta	CE7-0464
Ill	Catching Engineering Co.	9242 Broadway, Brookfield	BI2-1940
Mass	Schaal Associates	11 Muzzey St. Lexington 73	VO2-3878
Mich	J. Boyko Engineering	13050 Houston-Whittier Ave. Detroit 5	DR1-2840
Mo	Mamey & Hanna Co.	11 E Gregory Blvd. Kansas City 14	EM3-1771
Mo	Levex Engineering Co.	5050 Lindenwood Ave. St. Louis 9	HU1-2522

NY	Chatterton & Co.	712 State Tower Bldg. Syracuse	HA3-5596
NY	Empire Controls, Inc.	Box 31, Sta. H, Buffalo 14	AT8162
Ohio	Wyatt Sales Co.	1900 Euclid Ave. Cleveland	CH1-5368
Pa	Jackson-Walter Co.	2027 Arch St. Philadelphia 3	LO3-7470

AIRMEC, LTD. High Wycombe, Bucks. Eng HI2501

NY	Electronic & TV Consultants	Box 47, Highbridge Sta. New York 52	

AIRPAX ELECTRONICS INC. Box 8488, Fort Lauderdale, Fla LU3-6160

Cal	Airpax Electronics, Inc.	2550 E Foothill Blvd. Pasadena	SY5-3877
Colo	Vinson Associates	3600 S Lincoln, Englewood	SU9-2881
Kan	G. E. Harris & Co. Inc.	3241 E Douglas Ave. Wichita	MU3-9226
Md	Airpax Electronics, Inc.	Jacktown Rd. Cambridge	AC8-4600
Md	Airpax Electronics, Inc.	8113 Fenton St. Silver Spring	JU8-4232
Mass	Drew Associates, Inc.	Box 467, Bedford	CR4-7232
Mich	Tant Enterprises, Inc.	16257 Meyers Rd. Detroit	UN3-2655
NY	J. DiBlasi Associates, Inc.	90 Main St. Port Washington	POT-0470
NY	Reed-Tollefson Corp.	2815 Monroe Ave. Rochester	HI5-5450
NC	J. L. Highsmith & Co.	3733 Monroe Rd. Charlotte	FR7-2548
Ohio	Technical Associates, Inc.	4475 Lander Rd. Chagrin Falls	TE1-9884
Can	Leonard Electric, Ltd.	346 Bering Ave. Toronto 18, Ont	BE1-2731

ALCAR INSTRUMENTS, INC. 411 Robbins Ave. Trenton 8, NJ OV5-6342

ALCO PRODUCTS, INC. Box 1065, Schenectady 5, NY FR7-3311

Cal	Alco Products, Inc.	6363 Corsair, Los Angeles 22	RA3-4607
Cal	Alco Products, Inc.	235 Montgomery St. San Francisco	DO2-7393
DC	Alco Products, Inc.	910 17th St. NW, Washington 6	DI7-3544
Ga	Alco Products, Inc.	1430 W Peachtree St. NW, Atlanta	TR5-2489
Ill	Alco Products, Inc.	909 McCormick Bldg. Chicago 4	WA2-6234
Mo	Alco Products, Inc.	4050 Bingham Ave. St. Louis 16	FL1-8810
NY	Alco Products, Inc.	530 5th Ave. New York 36	YU6-5600
Ohio	Alco Products, Inc.	Tower Bldg. Cleveland 13	CH1-1958
Pa	Alco Products, Inc.	1617 Pennsylvania Blvd. Phila 3	LO4-5288
Pa	Alco Products, Inc.	875 Greentree Rd. Pittsburgh 20	WA2-3806
Tex	Alco Products, Inc.	Bank of Southwest Bldg. Houston	CA2-9076

ALDEN ELECTRONIC & IMPULSE RECORDING EQUIP. CO. Westboro, Mass FO6-4467

ALDEN PRODUCTS CO. 118D N Main St. Brockton, Mass JU3-0160

ALDERSON RESEARCH LABS. INC. 48-14 33 St. Long Island City 1, NY EM1-8855

ALEXANDER VACUUM RESEARCH INC. 285 Madison Ave. New York 17, NY MU5-8859

ALFA AMERICAN CORP. 303 W 42nd St, New York 36, NY FL3-5211

Ill	Alfa American Corp.	5420 Walker Ave. Rockford	TR7-1484

ALFAX PAPER & ENGINEERING CO. Box 125, Westboro, Mass FO6-4467

ALLEGANY INSTRUMENT CO. INC. 1091 Wills Mountain, Cumberland, Md

Cal	Allegany Instrument Co. of Cal.	533-A Cowper St. Palo Alto	DA1-1317
Cal	Dynasales Co.	Box 6757, Los Angeles 22	AN8-3814
DC	Allegany Instrument Co.	Box 4127, Washington 15	
Mass	The Addelco Co.	1826 Centre St. W Roxbury 32	FA3-7940
NJ	R. E. Weber Co.	15 Terry Ln. East Brunswick	CL7-5243
NY	Components for Industry	103 Greenhaven Terr. Tonawanda	JA7900
Tenn	Ridge Instrument Co.	102 Talmeda Rd. Oak Ridge	
Tex	J. J. Nelsen	3803 Lemon Ave. Dallas 19	LA6-1447
Tex	R. A. Mayes	Box 3344, El Paso	
Utah	D. Henneman	445 E 2nd S St. Salt Lake City	
Can	Instronics, Limited	Box 51, Stittsville, Ont	ON56

ALLEGHENY LUDLUM STEEL CORP. Oliver Bldg. Pittsburgh 22, Pa CO1-5300

ALLEN-BRADLEY CO. 136 W Greenfield Ave. Milwaukee 4, Wis

ALLEN SONS & CO. LTD., W. H. Queens Eng. Wks. Bedford, Eng

ALLEVARD-UGINE 15 rue de Rocher, Paris 8, Fr

ALLIANCE MFG. CO. Lake Park Blvd. Alliance, Ohio

ALLIED CONTROL CO., INC. 2 East End Ave. New York 21, NY

Cal	Western Control Equipment Co.	14615 Ventura Blvd. Sherman Oaks	ST9-0265
Fla	W. R. Lehmann Co.	Box 1224, Orlando	GA4-0131
Ill	R. M. Krueger Co.	4738 N Harlem, Chicago 31	UN7-7100
Ind	Morris-Cunningham & Associates	6208 N College Ave. Indianapolis 20	CL1-3222
Mass	Macdonald-Wadman Co.	1213 Chestnut St. Newton Upper Falls	WO9-8980
Minn	R. W. Marshall	6106 Excelsior Blvd. Minneapolis 16	WE9-0457
Mo	Forristal-Young Sales Co.	4053 Broadway, Kansas City 11	VA1-5330
NY	L. D. Allen, Inc.	Box 32, Salina Sta. Syracuse 8	GR1-3108
Ohio	A. C. Wahl & Associates, Inc.	Box 213, Lockland, Cincinnati 15	VA1-3270
Pa	C. R. Hile Co.	17 S Valley Rd. Paoli	NI4-5500
Tex	Southern Ind. Electronics, Inc.	538 Braniff Bldg. Dallas 35	FL2-3901
Wash	D. Smith Sales Co.	2320 N 45th St. Seattle 3	ME3-2180

ALLIED ENGINEERING & PRODUCTION CORP. 2421 Blanding Ave. Alameda, Cal LA2-1500

ALLIED LEAD CONSTRUCTION CO. 6836 S Chicago Ave., Chicago, Ill FA4-3700

Ky	Allied Lead Constr. Co. Inc.	210 Main St. Covington 1	
Mich	Allied Lead Constr. Co. Inc.	8024 Holmes Ave. Detroit 10	

ALLIED PLASTICS SUPPLY CORP. 75 Cliff St. New York 38, NY

ALLIED RADIO CORP 100 N Western Ave., Chicago 80, Ill HA1-6800

Cal	Electronic Supply Corp.	2085 E Foothill Blvd. Pasadena	MU1-5291
DC	E. G. Howard	1832 M St. NW, Wash	NA8-5800
Fla	C. Smith	Box 1621, Clearwater	316895
Ill	M. Van Ausdale	775 W Macon St. Decatur	428-4215
Ind	J. Lynn	413 S 28th St. South Bend	AT8-3670
Ind	H. W. Kizzia	4238 N Sheridan, Indianapolis	LI5-0145
Mich	D. Boersma	1330 Calhoun, Kalamazoo	FE9-1694
Mo	R. Person	35 Nancy Pl. Ballwin	LA7-6096
Ohio	W. R. Cranker	1961 Shenendoah, Toledo	JE6-5325
Ohio	G. C. Tamin	221 Austin Dr. Ct. Barberton	PL3-3912
Ohio	R. K. Abbott	108 W Cooke Rd. Columbus 14	AM3-9956
Wis	Allied Radio of Wisconsin, Inc.	2461 W Center Ave. Milwaukee	HI4-8320

ALLIED RESEARCH ASSOCIATES INC. 43 Leon St. Boston 15, Mass GA7-2434

DC	Allied Research Assoc. Inc.	1625 K St. NW, Wash	RE7-2126

ALLIED RESINOUS PRODUCTS, INC. Whitney Rd & Clark St. Conneaut, Ohio 91-001

ALLIS CO., LOUIS 427 E Stewart St, Milwaukee 7, Wis

Cal	The L. Allis Co.	1275 Rollins Rd. Burlingame	DI2-4382
Ill	The L. Allis Co.	5633 Diversey Ave. Chicago	NA2-8750
Kan	The L. Allis Co.	3159 S Seneca, Wichita 13	LY1-2620
Mich	The L. Allis Co.	2842 W Grand Blvd. Detroit	TR5-5622
Mo	The L. Allis Co.	4903 Delmar Blvd. St. Louis 8	FO1-5980
Neb	The L. Allis Co.	1010 W 11th, Hastings	2-6223
NJ	The L. Allis Co.	314 Dodd St. East Orange	OR4-8586
Ohio	The L. Allis Co.	2330 Victory Pkwy. Cincinnati	UN1-1582
Ohio	The L. Allis Co.	1920 Sylvania Ave. Toledo 13	GR9-6161
Ore	The L. Allis Co.	2035 SW 58th Ave. Portland 1	CA2-9403
Pa	The L. Allis Co.	4135 Brownsville Rd. Pittsburgh	TU4-6363
Tenn	The L. Allis Co.	1935 W Cumberland Ave. Knoxville	2-8655

ALLIS-CHALMERS MFG. CO. 935 S 70th St. Milwaukee 1, Wis. SP4-3600

Cal	Allis-Chalmers Mfg. Co.	41 Sutter St. San Francisco 4	DO2-5384
Colo	Allis-Chalmers Mfg. Co.	655 Broadway Bldg. Denver 3	CH4-2111
DC	Allis-Chalmers Mfg. Co.	508 Kennedy St. NW, Washington 11	TU2-9650
Ga	Allis-Chalmers Mfg. Co.	57 Forsyth St. NW, Atlanta 3	JA5-6518
Ill	Allis-Chalmers Mfg. Co.	135 S LaSalle St. Chicago 3	FR2-6480
Mo	Allis-Chalmers Mfg. Co.	1205 Olive St. St. Louis 3	CE1-9687
NY	Allis-Chalmers Mfg. Co.	100 Church St. New York 7	BE3-9100
Ohio	Allis-Chalmers Mfg. Co.	721 Illuminating Bldg. Cleveland	MA1-0532
Pa	Allis-Chalmers Mfg. Co.	2 Penn Center Plaza, Philadelphia 2	LO8-8255
Tex	Allis-Chalmers Mfg. Co.	1802 Main St. Dallas 1	RI1-3306

ALLISON DIV. GEN. MOTORS CORP. Box 894, Indianapolis, Ind

Cal	G. C. Pearce	9477 Brighton Way, Beverly Hills	BR2-7706
DC	K. J. Bigelow	1625 Eye St. NW, Washington 6	EX3-1133
Ohio	G. F. Bremer	224 N Wilkinson, Dayton	BA6-1606

ALLMETAL SCREW PRODUCTS CO. 821 Stewart Ave. Garden City, NY PI1-1200

Cal	Allmetal Screw Prods. Co., Inc.	5822 W Washington Blvd. Culver City	WE3-9595
Ill	Allmetal Screw Prods. Co., Inc.	6424 W Belmont Ave. Chicago 34	AV2-3232

ALLOY FLANGE & FITTING CORP. 222 Eagle St. Brooklyn, NY

ALLOY METAL SALES LTD. 215 Lakeshore Blvd. E, Toronto 2, Can EM2-4411

Can	Alloy Metal Sales, Ltd.	920 Archibald St. Winnipeg, Man	LE3-1141
Can	Alloy Metal Sales, Ltd.	200 Montee de Liesse, Montreal 9, Que	RI8-7941

ALLOY STEEL PRODUCTS CO. 1300 W Elizabeth Ave. Linden, NJ WA5-4600

Ala	Alloy Steel Products Co.	1925 29th Ave. S, Birmingham 9	TR3-2051
Cal	Alloy Steel Products Co.	24 California St. San Francisco	YU6-6286
Cal	Alloy Steel Products Co.	5408 Beverly Blvd. Los Angeles 22	RA3-4250
Del	Alloy Steel Products Co.	226 W 9th St. Wilmington	OL2-4177
Ga	Alloy Steel Products Co.	76 4th St. NW, Atlanta	TR4-4582
La	Alloy Steel Products Co.	8150 Florida Blvd. Baton Rouge 6	WA4-2301
Mass	Alloy Steel Products Co.	470 Atlantic Ave. Boston 10	HA6-4849
Mo	Alloy Steel Products Co.	11001 Manchester, St. Louis 22	YO5-3778
NY	Alloy Steel Products Co.	3053 Main St. Buffalo 14	AT4830
NY	Alloy Steel Products Co.	350 5th Ave. New York	LO5-0346
Pa	Alloy Steel Products Co.	2731 Brownsville Rd. Pittsburgh 27	TU2-2001
Wash	Alloy Steel Products Co.	1331 3rd Ave. Seattle	MU2-4566

ALLOYS UNLIMITED INC. 21-01 43rd Ave., LIC 1, NY

ALLSTATES DESIGN & DEV. CO. INC. 25 N Warren St. Trenton, NJ. EX4-3282

Fla	Allstates Design & Dev. Co. Inc.	363 N Orange Ave. Orlando	CH1-5305
Mass	Allstates Design & Dev. Co. Inc.	376 Boylston St. Boston	CO6-2305
NJ	Allstates Design & Dev. Co. Inc.	Hwy 10, E Hanover	TU7-2241
NY	Allstates Design & Dev. Co. Inc.	2820 James St. Syracuse	HO3-9196
NY	Allstates Design & Dev. Co. Inc.	35 Maplewood Ave. Albany 5	IV9-2537
Ohio	Allstates Design & Dev. Co. Inc.	6459 Kennedy Ave. Cincinnati	RE1-7514
Pa	Allstates Design & Dev. Co. Inc.	3412 Clairton Blvd. Pittsburgh	TU2-9150
Wis	Allstates Design & Dev. Co. Inc.	322 E Michigan St. Milwaukee	BR6-8793

ALOE SCIENTIFIC DIV. BRUNSWICK-BALKE-COLLENDER CO. 5655 Kingsbury Blvd. St. Louis 13, Mo

ALPHA METALS, INC. 60 R Water St. Jersey City 4, NJ HE4-6778

Cal	Alpha Metals Inc.	2343 Saybrook Ave. Los Angeles	RA3-9044
Fla	H. R. Gross & Co.	619 Riverside Dr. Ormond Beach	OR7-0728
Ill	Alpha Loy Corp.	2250 S Lumber St. Chicago	MO6-5280

Mich	J. Zaiser	21 Reading Ave. Hillsdale	HE7-4580
NY	J. Kennedy	32 Idlewood Dr. Tonawanda	LU8821
Pa	O. Pessel	441 Elliot St. Philadelphia	CH7-7894
	ALPHA MOLYKOTE CORP.	**65 Harvard Ave. Stamford, Conn**	**FI8-3724**
Ill	R. B. Dost, Inc.	2645 W Peterson Ave. Chicago	LO1-7456
	ALSTHOM, NUCLEAR DIV.	**38, Ave. Kleber, Paris 16, Fr**	**PA91.50**
Arg	Alsthom	Ave Roque S. Pena 570-5, Buenos-Aires	34.8021
Braz	Francobel	Ave Rio Branco 311 Rio De Janeiro	32.4363
Col	Maquipos	Apart. Aereo 6815, Bogota	19.242
Fin	Oy Soffco A B	Meritullinkatu 3, Helsinki	29.875
Gr	Denaxas et Trakas	8 Ave Stadion, Athenes	30,810
Holl	Cie Generale d'Electricite	64 Koningingnegracht, La Haye	11 20 10
Ind	Baltiboi	Forbes St. Bombay	255.451
Iran	Sherkat Sahami Payeh	Av. Saadi, Teheran	34.073
Port	Agencia Geral De Material Elecutrico	Rua Dos Industriais 4, Lisbon	60.692
Spn	General Elecbrica Espanola	Apartado 441, Bilbao	98.040
Turk	Turfran (Teknik Ticaret)	Karakoy Palas 6/14, Istambul	44.44.73
Ven	Promitec	Apartado Postal 1847, Caracas	81.42.52
	ALUMINIUM WIRE & CABLE CO. LTD.	**2 St. James's Sq. London SW1, Eng.**	**TR6641**
NY	Aluminum Transatlantic, Inc.	30 Rockefeller Plaza, New York 20	CI7-0945
	ALUMINUM CO. OF AMERICA	**1501 Alcoa Bldg. Pittsburgh 19, Pa**	**AT1-4545**
Cal	Aluminum Co. of America	1145 Wilshire Bldg. Los Angeles 17	HU3-2680
Ga	Aluminum Co. of America	1615 Peachtree St. NE, Atlanta 9	TR5-7441
Ill	Aluminum Co. of America	520 N Michigan Ave. Chicago 11	DE7-8181
Mass	Aluminum Co. of America	20 Providence St. Boston 16	HU2-3650
Mich	Aluminum Co. of America	610 New Center Bldg. Detroit 2	TR1-8100
Mo	Aluminum Co. of America	Continental Bldg. St. Louis 8	FR1-6700
NY	Aluminum Co. of America	230 Park Ave. New York 17	MU6-8048
Ohio	Aluminum Co. of America	2331 Victory Pkwy. Cincinnati 6	CA1-1700
Ohio	Aluminum Co. of America	1450 Terminal Tower, Cleveland 13	CH1-6880
Pa	Aluminum Co. of America	1615 Fidelity-Phila Trust Bldg. Phila 9	KI5-0850
Tex	Aluminum Co. of America	1900 Fidelity Union Tower, Dallas 1	RI1-6291
Wash	Aluminum Co. of America	1411 4th Ave. Bldg. Seattle 1	MA4-3017
	ALVARES TERNER CORP.	**233 Broadway, New York 7, NY**	**WO4-1435**
	AMBORY CORP	**21320 Stephenson Hwy., Hazel Park, Mich**	**LI1-1603**
	AMCO ENGINEERING CO.	**7333 Alsalle St. Chicago 31, Ill**	**UN7-8500**
Cal	W. J. Purdy Co.	312 7th St. San Francisco	UN3-3300
Cal	Perimeth Electronic Assoc.	5057 W Wash Blvd. Los Angeles	WE1-1041
Colo	Koether-Cox Co.	1325 S Inca St. Denver	PE3-5561
Fla	W. F. Hemminger Co.	624 NE 79th St. Miami 38	PL9-0300
Mass	Instrument Dynamics, Inc.	11 Albion St. Wakefield	CR6-5100
Mo	N. W. Kathrinus & Co.	4356 Duncan Ave. St. Louis	OL2-7005
NY	Tesco Assoc.	114 Miles Ave. Syracuse	HO3-45
NY	F & F Associates	297 Cherry Pl. East Meadow	MU7-6477
Ohio	M. P. Odell Co.	26614 Center Ridge Rd. Westlake	TR1-8000
Pa	W. F. Satterthwaite	Box 684, Havertown	SU9-9600
Tex	L. R. Ward Co.	3009 Canton St. Dallas 26	RI1-9004
Wash	R. S. Drake Assoc.	1817 Norman St. Seattle	JA2-7995
	AMCO RESEARCH, INC.	**1270 Ave. of The Americas, New York 20, NY**	
	AMERAY CORP.	**Rt. 46, Keavil, NJ**	**FO6-4100**
	AMERCOAT CORP.	**4909 Firestone Blvd. S Gate, Cal**	**LO4-2581**
Fla	Amercoat Corp.	2404 Dennis St. Jacksonville	
Ill	Amercoat Corp.	921 Pitner Ave. Evanston	
NJ	Amercoat Corp.	380 Carnegie Ave. Kenilworth	
NY	Nukem Products Corp.	111 Colgate Ave. Buffalo	
Tex	Amercoat Corp.	6580 Supply Row, Houston	
	AMERICAN AGILE CORP.	**Box 168, Bedford, Ohio**	**MO2-6900**
Ill	H. W. Foege	Box 188, Evanston	GR5-5706
Okla	The Haynes Co.	11 E 13th St. Tulsa 19	LU4-8748
	AMERICAN AIR FILTER CO.	**215 Central Ave. Louisville 8, Ky**	**HE7-3611**
Cal	American Air Filter Co., Inc.	480 9th St. San Francisco	KL3-0192
Cal	American Air Filter Co., Inc.	6181 York Blvd. Los Angeles	CL7-8581
Fla	R. J. Clark Equipment Co., Inc.	Box 37293, Miami	PL1-4244
Ga	American Air Filter Co., Inc.	1430 W Peachtree St. NW, Atlanta	TR6-8006
Ill	Air Filter & Equipment Co.	228 N LaSalle St. Chicago	FR2-5040
Mass	Petringell Associates	385 Concord Ave. Belmont	IV4-9220
NY	Assoc. Thermal Products, Inc.	534 W Broadway, New York	OR7-2900
Tex	The Ray Co.	Box 174, Dallas	TA4-0177
	AMERICAN BOSCH ARMA CORP.	**320 Fulton Ave. Hempstead, NY**	**PI2-2000**
Cal	American Bosch Arma Corp.	9460 Wilshire Blvd. Beverly Hills	BR2-4283
Cal	American Bosch Div.	300 Shaw Rd. S San Francisco	JU9-5323
DC	American Bosch Arma Corp.	1000 Connecticut Ave. NW, Washington	ST3-1966
Ill	American Bosch Div.	37 S Wabash Ave. Chicago	DE2-5591
Mich	American Bosch Div.	17330 W McNichols Rd. Detroit 35	BR3-8600
NY	American Bosch Div.	123 Power House Rd. Roslyn Hts.	MA1-0400
Ohio	American Bosch Arma Corp.	340 W 1st St. Dayton	BA2-1162
Ohio	American Bosch Div.	13311 Enterprise Ave. Cleveland 35	OR1-7000
	AMERICAN CAST IRON PIPE CO. SPEC. PRODS. DIV.	**Box 2603, Birmingham 2, Ala**	**AL1-8121**

	AMERICAN ELECTRONIC LABS. INC.	**121 N 7th St. Philadelphia 6, Pa**	**WA5-8780**
Cal	C. W. Fowler Co.	409 Hamilton Ave. Palo Alto	DA1-1810
DC	H. W. Julian & Son	8610 Grant St, Bethesda 14, Md	OL4-4469
Ill	R. E. Stemm, Inc.	8801 W Lake St. Chicago 44	ES9-2700
Md	Taylor Engineering, Inc.	2100 St. Paul St. Baltimore 18	BE5-9196
Mass	The Addelco Corp.	1826 W Centre St. W Roxbury 32	FA3-7940
NY	Landfear Enterprises	Box 68, Nutley, NJ	NO7-2900
NY	J. B. Lightstone Eng. Reps.	515 Comstock Ave. Syracuse	GR5-6704
Tex	G. Weinreich & Associates	1210 Old Gate Ln. Dallas 18	DA1-2800
Wash	J. J. Bacher Co.	221 W Galer St. Seattle 99	AT3-6740
	AMERICAN ELECTRONICS INC. NUCLEAR DIV.	**9459 W Jefferson Blvd. Culver City, Cal**	**UP0-4707**
Pa	W. J. Wehrheim	2158 Friendship, Philadelphia	MA4-1061
	AMERICAN FELT CO.	**Glenville Rd. Glenville, Conn**	**JE1-8700**
Ga	American Felt Co.	305 Technood Dr. NW, Atlanta	
Ill	American Felt Co.	847 W Jackson Blvd. Chicago 7	
Mass	American Felt Co.	211 Congress St. Boston 10	
Mich	American Felt Co.	2000 E Jefferson Ave. Detroit 7	
Mo	American Felt Co.	1901 Pine St. St. Louis 3	
NY	American Felt Co.	350 5th Ave. New York 1	
NY	American Felt Co.	62 St. Paul St. Rochester 4	
Ohio	American Felt Co.	1846 E 9th St. Cleveland 14	
Pa	American Felt Co.	1011 Lafayette Bldg. Philadelphia 6	
SC	American Felt Co.	406 Orders St. Greenville	
Tex	American Felt Co.	3200 McKinney, Dallas 2	
	AMERICAN GAS FURNACE CO.	**140 Spring St. Elizabeth, NJ**	**EL2-2120**
	AMERICAN HOLLOW BORING CO.	**1948 Raspberry St. Erie 4, Pa**	
	AMERICAN INSTRUMENT CO INC	**8030 Georgia Ave, Silver Spring, Md**	**JU9-1727**
Cal	American Instrument Co. Inc.	1486 Bay Shore Blvd. San Francisco	JU7-1689
Cal	American Instrument Co. Inc.	10812 Santa Monica Blvd. Los Angeles	GR9-1060
Ga	The Ellison Co.	692 Healey Bldg. Atlanta	JA5-0238
Ill	American Instrument Co. Inc.	549 W Washington St. Chicago 6	FI8-8466
Mass	American Instrument Co. Inc.	Box 544, Bedford	CR4-0014
Mo	American Instrument Co. Inc.	3449 S Grand Blvd. St. Louis 18	PR1-8080
NJ	American Instrument Co. Inc.	16 N 8th St. Camden 2	WO5-5544
NY	American Instrument Co. Inc.	30 Church St. New York	CO7-8374
NY	American Instrument Co. Inc.	1341 Dewey Ave. Rochester	GL3-3849
Ohio	American Instrument Co. Inc.	Box 7816, Cleveland 31	LA4-2530
Pa	American Instrument Co. Inc.	Box 267, Allison Park	ST1-1404
Tex	Southwestern Eng. & Equip. Co.	4045 Lemmon Ave. Dallas	LA8-7493
	AMERICAN LAUNDRY MACHINERY CO.	**Ross & Section Aves. Cinc 12, Ohio**	**RE1-8500**
Cal	American Laundry Machinery	1600 Bryant St. San Francisco 3	UN1-7831
Cal	American Laundry Machinery	1442 E 4th St. Los Angeles 33	AN8-8181
DC	American Laundry Machinery	1635 Conn. Ave. NW, Washington 9	HU3-6525
Ga	American Laundry Machinery	1381 Spring St. NW, Atlanta 9	TR6-4390
Ill	American Laundry Machinery	35 E Wacker Dr. Chicago	FR2-4480
Mass	American Laundry Machinery	1060 Hancock St. Quincy 69	GR9-7800
Mich	American Laundry Machinery	800 Griswold St. Detroit 26	WO3-2080
NY	American Laundry Machinery	40 E 34th St. New York 16	LE3-8080
Pa	American Laundry Machinery	Center & Highland, Pittsburgh 6	EM1-2831
Pa	American Laundry Machinery	18 Summit Grove Ave. Philadelphia	LA5-5215
Tex	American Laundry Machinery	1118 Jackson St. Dallas 2	RI7-8956
Wash	American Laundry Machinery	195 Elliott Ave. W, Seattle 99	AT4-8040
	AMERICAN METAL PRODS. CO.	**5959 Lincoln Ave. Detroit 4, Mich**	**TY7-6100**
DC	Aircraft Supply Co.	1346 Connecticut Ave. Washington 6	AD3-8700
Mich	Engineering Science Div.	Box 465, Ann Arbor	NO5-8041
	AMERICAN OPTICAL CO. INSTRUMENT DIV.	**Box A, Buffalo 15, NY**	**FI4000**
Cal	American Optical Co.	San Francisco 8	SU1-4388
DC	American Optical Co.	Washington	JU5-3681
Ill	American Optical Co.	Chicago 90	CE6-1382
Mass	American Optical Co.	Waltham 54	TW3-2430
Mich	American Optical Co.	Detroit 31	WO2-0919
Mo	American Optical Co.	St. Louis 8	CE1-1803
NY	American Optical Co.	New York 17	MU7-7165
Pa	American Optical Co.	Havertown	HI6-7083
Pa	American Optical Co.	Sewickley	AT1-9513
Tex	American Optical Co.	Dallas 21	RI7-8361
Can	American Optical Co.	Toronto, Ontario	EM4-8941
	AMERICAN OPTICAL CO., SAFETY PRODS. DIV.	**28 Mechanic St. Southbridge, Mass**	**PO4-3211**
Cal	American Optical Co.	1433 Cole Pl. Hollywood 28	HO3-4161
Cal	American Optical Co.	25 Kearny St. San Francisco 8	SU1-4363
Colo	American Optical Co.	644 Delaware St. Denver	AL5-0661
Ill	American Optical Co.	10129 Pacific Ave. Franklin Park	GL1-0080
Ga	American Optical Co.	824 Plaster Ave. NE, Atlanta 9	TR3-1074
Mo	American Optical Co.	1700 Washington Blvd. St. Louis 3	CE1-1808
Mich	American Optical Co.	8865 Schaefer Rd. Detroit 28	WE3-8761
Ohio	American Optical Co.	1325 Rockwell Ave. Cleveland 14	CH1-3998
Pa	American Optical Co.	66 N Juniper St. Philadelphia 7	LO4-5719
Tex	American Optical Co.	1201 W Clay St. Houston 19	JA6-1241
Wash	American Optical Co.	812 Dexter Ave. N, Seattle 9	MA4-8770
	AMERICAN POTASH & CHEM CORP.	**99 Park Ave. New York 16, NY**	**OX7-0544**
Cal	Amer. Potash & Chem. Corp.	3000 W 6th St. Los Angeles 54	DU2-8231
Cal	Amer. Potash & Chem. Corp.	235 Montgomery St. San Francisco 4	DO2-1300
DC	Lindsay Chem. Div.	15th & K Sts. NW, Washington 5	DI7-1297

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Ga	Amer. Potash & Chem. Corp.	214 Walton Bldg. Atlanta 3	JA2-3361
Ill	Lindsay Chem. Div.	358 Ann St. W Chicago	760
Ill	Amer. Potash & Chem. Corp.	3557 W Peterson Ave. Chicago 45	CO7-3817
La	Amer. Potash & Chem. Corp.	1600 Fairfield Ave. Shreveport	42 5-4488
Ohio	Amer. Potash & Chem. Corp.	224 N Wilkinson St. Dayton 2	BA8-3492
Ohio	Amer. Potash & Chem. Corp.	2025 Riverside Dr. Columbus 21	HU6-9461
Ore	Amer. Potash & Chem. Corp.	1320 SW Broadway, Portland 1	CA6-2463

AMERICAN PRODUCTS MFG. CO., INC. 8127-33 Oleander St. New Orleans 18, La

AMERICAN RADIO CO. INC .... **445 Park Ave. New York 22, NY** **PL3-5046**

AMERICAN RESEARCH CORP. **Rt. 6, Farmington, Conn** **OR7-2693**

AMERICAN SILVER CO., INC. **36-07 Prince St. Flushing 54, NY** **FL3-8012**

AMERICAN SMELTING & REFINING CO. ..... **120 Broadway, New York 5, NY** **RE2-9500**

Ala	Amer. Smelt. & Refng. Co.	416 Dalton Dr. Birmingham	FA2-1802
Md	Amer. Smelt. & Refng. Co.	Highland & Eastbourne Aves. Baltimore 24	DR5-2400
Mass	Amer. Smelt. & Refng. Co.	20 Providence St. Boston 16	LI2-0797
Mich	Amer. Smelt. & Refng. Co.	7430 2nd Blvd. Detroit 2	TR1-5940
Minn	Amer. Smelt. & Refng. Co.	8916 Columbus Ave. S, Bloomington	TU1-4109
Mo	Amer. Smelt. & Refng. Co.	St. Louis	JA4-4040
NJ	Amer. Smelt. & Refng. Co.	150 St. Charles St. Newark 1	MI3-0800
NY	Amer. Smelt. & Refng. Co.	335 E Main St. Rochester 4	LO5258
Ohio	Amer. Smelt. & Refng. Co.	1603 Carew Tower, Cincinnati	CH1-1678
Ohio	Amer. Smelt. & Refng. Co.	1422 Euclid Ave. Cleveland	PR1-2175
Pa	Amer. Smelt. & Refng. Co.	1107 Suburban Sta. Bldg. Philadelphia 3	LO7-5129
Wis	Amer. Smelt. & Refng. Co.	4608 W Burleigh St. Milwaukee	HI5-7430

AMERICAN-STANDARD, INDUSTRIAL DIV. Detroit 32, Mich **WE3-8665**

Cal	American-Standard Ind. Div.	2411 W 8th St. Los Angeles	DU7-5303
DC	American-Standard Ind. Div.	7720 Wisconsin Ave. Washington 14	OL4-5223
Ga	American-Standard Ind. Div.	3224 Peachtree Rd. Atlanta	CE7-8604
Ill	American-Standard Ind. Div.	238 N LaSalle St. Chicago 1	FI6-2531
Mass	American-Standard Ind. Div.	51 Winchester St. Newton Hghlnds 61	WO9-9100
Mich	American-Standard Ind. Div.	632 Fisher Bldg. Detroit 2	TR2-4330
Minn	American-Standard Ind. Div.	610 Longyear Bldg. Minneapolis 2	FE9-2181
NY	American-Standard Ind. Div.	39 W 39th St. New York 18	FE6-2170
Ohio	American-Standard Ind. Div.	1010 Euclid Ave. Cleveland 15	MA1-5848
Pa	American-Standard Ind. Div.	1617 Pennsylvania Blvd. Philadelphia 3	LO3-8873
Tex	American-Standard Ind. Div.	1213 Texas Bank Bldg. Dallas 2	RI7-1879
Wis	American-Standard Ind. Div.	8581 W Capitol Dr. Milwaukee 23	HO4-6550

AMERICAN-STANDARD PROD. (CAN) LTD. 1201 Dupont St. Toronto 4, Ont, Can **LE4-3521**

BC	American-Standard	326 Drake St. Vancouver	MU5-7362
Can	American-Standard	8585 Jeanne Mance St. Montreal	DU1-6241
Can	American-Standard	3600 Barclay Ave. Montreal	SE1-2783
Can	American-Standard	80 Pioneer Ave. Winnipeg, Man.	WH2-0327
Can	American-Standard	310 Ellis St. E. Windsor, Ont.	CL4-4353
Can	American-Standard	77 Metcalfe St. Ottawa, Ont.	CE6-7396
Can	American-Standard	42 James St. N, Hamilton, Ont.	JA7-2922
Can	American-Standard	106-11th Ave. SE, Calgary, Alb.	AM3-4920
Can	American-Standard	12010-111th Ave. Edmonton, Alb.	HU8-7907
NS	American-Standard	Halifax & Granville	2-5933

AMERICAN-STANDARD ROSS HEAT EXCHANGER DIV. Box 2081, Buffalo 5, NY

AMERICAN STERILIZER CO. .. **Box 620, Erie, Pa** **GL6-2021**

Cal	American Sterilizer Co.	4333 Lankershim Blvd. N Hollywood
Cal	American Sterilizer Co.	17 Vista Ave. San Mateo
Colo	American Sterilizer Co.	4690 W Alameda St. Denver
Fla	American Sterilizer Co.	4424 N Dale Mabry, Tampa
Ill	American Sterilizer Co.	9901 S Western Ave. Chicago 43
La	American Sterilizer Co.	611 Gravier St. New Orleans 12
Md	American Sterilizer Co.	35 Wisconsin Circle, Chevy Chase 15
Mass	American Sterilizer Co.	1330 Beacon St. Brookline 46
Mo	American Sterilizer Co.	6738 Chippewa St. St. Louis 9
NY	American Sterilizer Co.	247-39 Jamaica Ave. Bellerose 26
Pa	American Sterilizer Co.	102 Greenwood Ave. Wyncote
Tex	American Sterilizer Co.	6620 Snider Pl. Dallas 5

AMERICAN THERMO ELECTRIC CO. 1023 N Fuller Ave. Los Angeles 46, Cal **HO4-1632**

AMERICAN TIME PRODUCTS, INC. 61-20 Woodside Ave. Woodside 77, NY **OL1-7880**

AMERICAN TRADAIR CORP. SUB OF EXCO ELECTRONICS, LTD. 34-01 30th St. LIC 6, NY **EM1-1414**

Cal	C. W. Reed Co., Inc.	5959 S Hoover St. Los Angeles
La	Gamma Industries, Inc.	2255 Ted Dunham, Baton Rouge
Mich	B. Z. Rubin Co.	12838 Fenkell Ave. Detroit 27
Mo	Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis
NJ	G. Landfear Enterprises	165 Franklin Ave. Nutley

AMERICAN WELDING & MFG. CO. **555 Dietz Rd. Warren, Ohio** **EX3-2531**

Cal	B. W. Dreyer	2088 Placentia Ave. Costa Mesa	LI8-7759
Cal	L & L Associates	4444 Piedmont Ave. Oakland 11	OL2-0265
Colo	Jones & Myers Co.	1321 Bannock St. Denver 4	KE4-4911
Pa	C.B. Thaw Co.	29 Bala Ave. Bala Cynwyd	MO4-9450
Utah	Jones & Myers Co.	445 E 2nd S, Salt Lake City	EL5-5461
Wash	Associated Industries	1782 Rainier Ave. Seattle 44	EA5-4400

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	AMES METAL PRODUCTS CO.	**4323 S Western Ave., Chicago, Ill**	**LA3-3230**
	AMGLO CORP.	**4333 Ravenswood Ave. Chicago 13, Ill**	**BU1-2727**
	AMP INCORPORATED	**Eisenhower Blvd. Harrisburg, Pa**	**JO6-0101**
Cal	AMP, Inc.	3138 W El Segundo Blvd. Hawthorne	OS5-1186
Cal	AMP, Inc.	1606 Rollins Rd. Burlingame	OX7-8347
Ill	AMP Inc.	5555 Northwest Hwy. Chicago 30	SP4-1800
	AMP INC. CAPITRON DIV.	**155 Park St. Elizabethtown, Pa**	
Ariz	M. Wagner	Box 940, Tucson	CY7-8886
Cal	B. F. Dennison	3251 Sepulveda, Los Angeles 34	EX1-7613
Cal	J. J. Fiske	Box 585, Arcadia	HI7-7655
Ill	L. M. Reis	8532 Trumbull St. Skokie	OR5-6313
Ind	H. N. Lindquist	5317 Eicher Dr. Ft. Wayne	TR3-4382
Md	G. K. Latch	320 Weatherbee Rd. Towson	VA5-1566
Mass	J. B. Sullivan	101 Lexington Ave. Needham 94	HI4-4639
NY	R. Ball	174-36 Pidgeon Meadow Rd. Flushing 65	FL7-7467
Tex	E. Pyle	Box 646, Garland	FL7-5616
	AMPEREX ELECTRONIC CORP.	**230 Duffy Ave. Hicksville, NY**	**WE1-6200**
Cal	W. J. Purdy Co.	312 7th St. San Francisco 3	UN3-3300
Cal	Shephard-Winters Co.	3193 Cahuenga Blvd. W Hollywood 28	HO6-2171
Colo	Mel Pearson & Co.	1860 S Acoma St. Denver 23	SP7-7878
Ga	J. Millar Assoc.	1036 Peachtree St. NW, Atlanta 9	EL0919
Ill	Amperex	7440 W North Ave. Elmwood Park	GL3-2494
Mass	Gerber Sales Co. Inc.	48 Pearl St. Brookline	BE2-2425
NY	Kahgan Sales Corp.	1261 Broadway, New York 1	MU4-7772
NY	E. A. Ossmann & Assoc.	101 Packard Dr. Syracuse	GL4-2462
Ohio	Sid Levin & Assoc.	6252 Mayfield Rd. Cleveland 24	HI2-8340
Ore	Richard Legg Co.	1633 NW 21st Ave. Portland 9	CA3-9720
Pa	Paragon Scales Co.	111 S 22nd St. Philadelphia 3	LO3-7068
Tex	Norvell Assoc. Inc.	3603 Lemmon Ave. Dallas 19	LA6-1861
	AMPERITE CO. INC.	**561 Broadway, New York 12, NY**	
Cal	Wallace & Wallace	1206 Maple Ave. Los Angeles	
Tex	J. E. Smith	Box 35331, Airlawn Sta. Dallas	
	AMPEX DATA PRODUCTS CO.	**934 Charter St. Redwood City, Cal**	**EM9-7111**
Cal	Ampex Data Products Co.	331 Town & Country Village, Palo Alto	DA3-9259
Cal	Ampex Data Products Co.	8467 Beverly Blvd. Los Angeles 48	OL3-1610
DC	Ampex Data Products Co.	Connecticut & Fla Ave. NW, Washington 9	DE2-6309
Ga	Ampex Data Products Co.	361 E Paces Ferry Rd. NE, Atlanta 5	CE3-5476
Ill	Ampex Data Products Co.	212 W Saint Charles Rd. Villa Park	TE3-7050
NJ	Ampex Data Products Co.	22 S Park St. Montclair	PI6-4400
	AMPHENOL CONNECTOR DIV. AMPHENOL-BORG 1830 S 54 Ave. Chicago 50, Ill		**BE2-1000**
Cal	Amphenol-Borg Elec. Corp.	5426 Reseda Blvd. Tarzana	DI5-6810
Col	R. G. Bowen Co. Inc.	721 S Broadway, Denver 9	RA2-4641
DC	Amphenol-Borg Elec. Corp.	725 15th St. NW, Washington	EX3-2205
Ill	Amphenol-Borg Elec. Corp.	2801 S 25th Ave. Broadview	CO1-3000
Ind	L. M. DeVoe Co.	4010 Washington Blvd. Indianapolis 5	AT3-1395
Mass	R. Purinton, Inc.	11 Muzzey St. Lexington 73	VO2-3300
NJ	Boenecke Assoc.	5505 Westfield Ave. Pennsauken	NO2-8650
NY	Amphenol-Borg Elec. Corp.	310 Northern Blvd. Great Neck	HU2-4700
NC	Amphenol-Borg Elec. Corp.	200 S Green St. Greensboro	BR4-5057
Ohio	Amphenol-Borg Elec. Corp.	20800 Center Ridge Rd. Cleveland 16	EDI-9100
Tex	J. F. McKinney Sales Co.	1303 Chemical St. Dallas 7	RI1-1368
Wash	Amphenol-Borg Elec. Corp.	Smith Towers Bldg. Seattle	MA4-1446
	ANACONDA CO.	**25 Broadway, New York 4, NY**	**HA2-6300**
	AMPLIFIER CORP of AMERICA	**396 Broadway, New York 13, NY**	**WO6-2929**
Cal	American Brass Co.	120 Montgomery St. San Francisco	
Colo	American Brass Co.	4303 Brighton Blvd. Denver	
Colo	Anaconda Wire & Cable Co.	909 17th St. Denver	
Ill	American Brass Co.	4501 W North Ave. Chicago	
Ill	Anaconda Wire & Cable Co.	20 N Wacker Dr. Chicago	
Mo	American Brass Co.	1221 Locust St. St. Louis	
Mo	Anaconda Wire & Cable Co.	3615 Olive St. St. Louis	
NY	American Brass Co.	99 Park Ave. New York	
NY	Anaconda Wire & Cable Co.	21 West St. New York	
Tex	American Brass Co.	5881 E University Blvd. Dallas	
Tex	Anaconda Wire & Cable Co.	1511 Bryan St. Dallas	
	ANCHOR METAL CO., INC.	**966 Meeker Ave. Brooklyn 22, NY**	
	ANCHOR PLASTICS CO., INC.	**36-36 36th St. L.I.C. 6, NY**	**RA9-1494**
Cal	W. S. Harmon	121 N Robertson Blvd. N Beverly Hills	OL5-6340
Fla	Mace Associates, Inc.	Box 2614, Jacksonville	
Ill	A. Leff Associates	1046 Wilson, Chicago 40	LO1-6881
Ind	R. Stoltenberg	2515 Marcy Ln. Ft. Wayne	KE4453
Mich	J. Frank	18303 Murland, Detroit 21	UN4-4797
Minn	B. E. Swenson Co.	1538 Nicollet Ave. Minneapolis 3	FE5-1455
NC	Mfgrs Sales	509 Cornwallis Dr. Greensboro	BR4-1401
Ohio	C. B. Miller	Box 66, Cincinnati	LO1-7499
	ANDEL & CO., INC.	**5218 N Kedzie Ave. Chicago 25, Ill**	**IR8-4114**
	ANDERSON CO. V.D. DIV. INTL. BASIC ECONOMY CORP.	**1935 W 96th St. Cleveland 2, Ohio**	**OL1-1900**
Cal	Vanderhoof Equipment Co.	444 Market St. San Francisco 11	
Fla	Florida Automatic Controls	3711 Inman Ave. Tampa 9	8-1258
Ill	Engineered Specialties & Controls	5534 W Division St. Chicago 51	MA6-8441

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Mass	L. C. Price & Co.	143 Broadway, Cambridge 42	KI7-8322
Mich	H. A. Reed Co.	19465 James Couzens Hwy. Detroit 35	VE8-6880
NY	Yocum & Goode, Inc.	420 Lexington Ave. New York 17	MU5-8230
NC	C. M. Setzer & Co.	711 Clement Ave. Charlotte 1	ED2-3550
Ohio	Fischer Industrial Equip. Co.	6851 Plainfield Rd. Cincinnati 36	TW1-2530
Okla	G. B. Ross Co.	3216 E 21st St. Tulsa	WE6-0540
Pa	Maleson Co.	225 N 32nd St. Philadelphia 4	EV2-6400
Tex	Power Specialty Co.	2000 Kipling St. Houston 6	JA4-7421
Wis	W. P. Remmel Co.	4121 W North Ave. Milwaukee 8	HI2-7810
	ANDREW CO. OTIS	**231 W Court St. Cincinnati 2, Ohio**	**MA1-3649**
	ANNIN CO.	**1940 S Vail Ave. Montebello, Cal**	**RA3-9351**
Ala	F. A. Thomas Co.	1805 Liberty St. Mobile	GR1-2752
Cal	Trident Engineering Co.	16 Beale St. San Francisco 5	YU6-6558
Colo	Denver Engrg. Sales Co.	2720 E 3rd Ave. Denver 6	DE3-6269
Ga	W. K. Stallings	3120 Maple Dr. NE, Atlanta 5	CE7-0600
Ill	P. B. Shannon Co.	10336 S Western Ave. Chicago 43	BE3-3392
La	Moody-Price, Inc.	2966 Lupine St. Baton Rouge 5	DI4-0811
NY	The Annin Co.	165 Broadway, New York 6	BE3-0760
Ohio	H. R. Bowers Co.	1585 W 117th St. Cleveland 7	AC1-8442
Pa	W. J. Gallagher Co.	3701 N Broad St. Philadelphia 40	BA9-9940
Pa	H. A. Woolman Co.	4 W Manilla Ave. Pittsburgh 20	WA2-2420
Tex	The Annin Co.	825 Rosine St. Houston 19	JA6-4779
Can	Kirk Equipment, Ltd.	1460 Bishop St. Montreal 25, Que	VI2-5468
	ANSCO DIV. GEN. ANIL & FILM CORP.	**175 Clinton St. Binghamton, NY**	**RA9-6555**
Cal	Ansco Div.	1001 N Labrea Ave. Los Angeles 38	OL4-0550
DC	Ansco Div.	3408 Wisconsin Ave. Washington 16	EM2-6115
	ANTARA CHEMICALS DIV. GEN. ANIL. & FILM CORP.	**435 Hudson St. New York 14, NY**	**WA4-0600**
Cal	Antara Chemicals Div.	206 Utah Ave. S San Francisco 7	JU9-6500
Cal	Antara Chemicals Div.	2445 E 26 St. Los Angeles 58	LU2-7321
Ill	Antara Chemicals Div.	310 W Polk St. Chicago 7	HA7-3771
NC	Antara Chemicals Div.	2459 Wilkinson Blvd. Charlotte 1	ED3-4121
Ore	Antara Chemicals Div.	3322 NW 35th Ave. Portland 10	CA8-3365
Pa	Antara Chemicals Div.	42 S 15th St. Philadelphia 2	LO3-2838
RI	Antara Chemicals Div.	85 Tockwotton St. Providence 3	GA1-1585
Tenn	Antara Chemicals Div.	4301 Rossville Blvd. Chattanooga 7	MA9-3282
	ANTON ELECTRONIC LABS. INC.	**1226-38 Flushing Ave. Brooklyn 37, NY**	**EV6-5715**
Cal	C. W. Reed Co.	5959 S Hoover St. Los Angeles 44	PL3-2221
DC	Wilco Associates, Inc.	733 15th St. NW, Washington 5	EX3-1114
Fla	Col-Ins-Co. Inc.	5728 Precision Dr. Orlando	CH1-1501
Mich	B. Z. Rubin Co.	12838 Fenkell Ave. Detroit	UN4-4958
NY	Scientific Systems Sales Corp.	Box 3, Bayside 61	BA5-0929
Ohio	A. W. Kurtz	515 E Grand Ave. Springfield	FA2-5893
Tex	Geophysical Supply	1500 Crawford St. Houston	CA4-1621
Can	Stark Electronic Sales, Ltd.	Box 240, Ajax, Ont.	AJ125
Eng	T. J. Sas & Son, Ltd.	296 Regent St. London W1	
Ger	R. H. Stern	Zeil 123, Frankfurt/Main	
Holl	Eopharna Chem-Phar Handelsbureau	Haringkade 125, Scheveningen	
Pak	Continental Comm. Corp. Ltd.	Bunder Rd. Karachi, Pakistan	
	APPLIED DYNAMICS INC., SUB. BOWMAR INSTRUMENT CORP.	**Ann Arbor, Mich**	**NO2-4493**
Fla	Medco	Box 216, Melbourne	PA3-7016
Mich	S. Sterling Co.	15310 W McNichols Rd. Detroit 35	BR3-2900
NY	Wild & Associates, Inc.	1519 Northern Blvd. Roslyn	MA1-8660
	APPLIED PHYSICS CORP.	**2724 S Peck Rd. Monrovia, Cal**	**HI6-7181**
Cal	Baird-Atomic, Inc.	1485 Bayshore Blvd. San Francisco 24	DE4-0515
Cal	Baird-Atomic, Inc.	2312 W Redondo Beach Blvd. Gardena	FA1-4466
Ga	Baird-Atomic, Inc.	3127 Maple Dr. NE, Atlanta 5	CE3-8295
Ill	Baird-Atomic, Inc.	540 N Lake Shore Dr. Chicago 11	MI2-8755
Md	Baird-Atomic, Inc.	4926 Del Ray Ave. Bethesda 14	OL6-1200
Mass	Baird-Atomic, Inc.	6A Muzzey St. Lexington 73	VO7-9500
Mich	Baird-Atomic, Inc.	30129 Minton, Livonia	GA1-7169
NY	Baird-Atomic, Inc.	811 W Merrick Rd. Valley Stream	CU6-5490
Pa	Baird-Atomic, Ind.	413 Johnson St. Jenkintown	WA7-4676
Pa	Baird-Atomic, Inc.	Box 207, Monroeville	EL1-1500
Tex	Baird-Atomic, Inc	5635 Yale Blvd. Dallas 6	EM1-6081
	APPLIED RADIATION CORP	**2404 N Main St. Walnut Creek, Cal**	
Mass	High Voltage Engrg. Corp.	S Bedford St. Burlington	BR2-1313
	APPLIED RESEARCH LABS. INC.	**Box 1710, Glendale 5, Cal**	**CH5-5524**
Ill	ARL	2454 W 38th St. Chicago 32	LA3-7088
Mich	ARL	20200 W Outer Dr. Dearborn 8	LO5-6633
NY	ARL	36 Cumberland Rd. Glen Rock, NJ	GI4-1717
Ohio	ARL	Box 332, Hiram	LO9-7575
Pa	ARL	3215 Longwood Dr. Pittsburgh 27	TU2-5977
Tex	ARL	Box 67, Seabrook	KE5-3525
Eng	ARL - Cedardale Wks.	Luton Rd. Harpenden, Herts.	5201
Switz	ARL	Montchoisi 9, Lausanne	(021) 26 82 83
	ARAPAHOE CHEMICALS, INC.	**2855 Walnut St. Boulder, Colo**	**HI2-1926**
Cal	S. L. Abbot Co.	135 King St. San Francisco	SU1-8802
Ill	W. E. Phillips, Inc.	435 N Michigan Ave. Chicago 11	SU7-9611
NY	Millmaster Chemical Corp.	295 Madison Ave. New York 17	MU9-1817
	ARBEITSGEMEINSCHAFT REAKTORPUMPEN HALBERG-WEISE	**Treitschkestr. 3, Heidelberg, Ger**	**2-4323**
	ARCO CO.	**7301 Bessemer Ave. Cleveland 27, Ohio**	**MI1-1170**
Cal	Arco Co.	4754 E 49th, Los Angeles	LU5-1958
Ill	Arco Co.	4724 S Christiana Ave. Chicago	VI7-7955
	ARENBERG ULTRASONIC LAB., INC.	**94 Green St. Jamaica Plain 30, Mass**	**JA2-8640**
	ARMSTRONG CO. RICHARD M.	**Box 566, West Chester, Pa**	**OW6-1041**
	ARMSTRONG CORK CO.	**Lancaster, Pa**	
Cal	Armstrong Cork Co.	6083 E Smithway St. Los Angeles 22	
Ill	Armstrong Cork Co.	6535 W Irving Park Rd. Chicago 34	
Mass	Armstrong Cork Co.	280 1st Ave. Needham Hts. 94	
Mich	Armstrong Cork Co.	321 Lafayette Ave. W, Detroit 26	
Mo	Armstrong Cork Co.	1919 Hampton Ave. St. Louis 10	
NY	Armstrong Cork Co.	295 5th Ave. New York 16	
Ohio	Armstrong Cork Co.	2975 Superior Ave. Cleveland 14	
Ohio	Armstrong Cork Co.	1057 Meta Dr. Cincinnati 37	
Pa	Armstrong Cork Co.	15th & Chestnut, Philadelphia 2	
SC	Armstrong Cork Co.	Box 5517, Sta. B, Greenville	
	ARNHOLD CERAMICS, INC.	**1 E 57th St. New York 22, NY**	**PL5-8213**
NJ	Arnhold Ceramics, Inc.	1952 Woodbridge Ave. Nixon	CH7-5333
	ARNOLD ENGINEERING CO.	**Box G, Marengo, Ill**	**AN3-6300**
Cal	The Arnold Engineering Co.	3450 Wilshire Blvd. Los Angeles 5	DU8-0361
Ind	The Arnold Engineering Co.	1801 E DeLoss St. Indianapolis	ME9-5231
Mass	The Arnold Engineering Co.	49 Waltham St. Lexington	VO2-2804
Mich	The Arnold Engineering Co.	1304 W Michigan Ave. Jackson	ST4-3663
Mo	The Arnold Engineering Co.	111 E Gregory Blvd. Kansas City 14	HI4-7839
NJ	The Arnold Engineering Co.	610 E Palisade Ave. Englewood	LO1-4640
NY	Brace-Mueller-Huntley, Inc.	2000 Military Rd. Buffalo 17	VI8700
NC	The Arnold Engineering Co.	20 E Martin St. Raleigh	VA8-3270
Ohio	The Arnold Engineering Co.	8905 Lake Ave. Cleveland 2	OL1-1240
Tex	Southwest Electronic Industries	The Meadows Bldg. Dallas 6	EM3-1671
Wis	F. W. Ladky Associates, Inc.	4604 N Wilson Dr. Milwaukee 4	WO2-2940
Can	Bayly Engineering, Ltd.	Ajax, Ontario	EM2-3741
	ARNOLD MAGNETICS CORP.	**6050 W Jefferson Blvd. LA 16, Cal**	**VE7-5313**
Del	Industrial Winding Machy Co.	120 Wall St, New York 5, NY	WH3-7754
Kan	Factors Inc.	10401 Main St. Bellevue, Wash	MU2-3815
NJ	Industrial Winding Machy Co.	120 Wall St, New York 5, NY	WH3-7754
NY	Industrial Winding Machy Co.	120 Wall St, New York 5	WH3-7754
NY	Reven Associates	175 Willow St. Garden City	PI1-4657
Ohio	Dayton Associates	Talbett Tower, Dayton 2	DA3-9621
Okla	Factors Inc.	10401 Main S . Bellevue, Wash	MU2-3815
Ore	Factors Inc.	10401 Main St. Bellevue, Wash	MU2-3815
Pa	Dayton Associates	Talbett Tower, Dayton 2, Ohio	DA3-9621
Wash	Factors Inc.	10401 Main St. Bellevue	MU2-3815
	ASHEVILLE-SCHOONMAKER MICA CO.	**900 Jefferson Ave. Newport News, Va**	**CH4-7311**
Cal	Marwood Limited	357 9th St. San Francisco	HE1-7893
Cal	Marwood Limited	320 E 3rd St. Los Angeles	
Ill	Asheville-Schoonmaker Mica Co.	1009 N Meade Ave. Chicago 30	BE7-7373
NY	Asheville-Schoonmaker Mica Co.	271 Church St. New York 13	WO6-4550
Ohio	Asheville-Schoonmaker Mica Co.	19115 Detroit Rd. Rocky River	ED1-4433
Ore	Marwood Limited	209 SW 1st Ave. Portland	
Wash	Marwood Limited	1714 1st Ave. S, Seattle 4	
	ASSEMBLY PRODUCTS, INC.	**75 Wilson Mills Rd. Chesterland, Ohio**	**HA3-3131**
Cal	Electronic Eng. Associates, Ltd.	1295 Laurel St. San Carlos	LY3-2189
Cal	Hafstrom-Thompson Associates	16212 Ventura Blvd. Encino	ST8-0800
Cal	Hafstrom-Thompson Associates	7460 Girard Ave. LaJolla	GL4-1185
Mass	Electronic Components & Services	30 Huntington Ave. Boston	KE6-8581
NJ	T. Swiler	277 Franklin Ave. Wyckoff	TW1-0590
NY	Technical Sales, Inc.	2900 Erie Blvd. E, Syracuse 3	GR2-7524
Pa	L. Rowe	901 E Ridley Ave. Ridley Park	LE4-9722
Tex	Carey-Wolf Co.	Box 6072, Fort Worth	FE8-1702
Can	Aeromotive Eng. Products Ltd.	147 Hymus Blvd. Pte. Claire, Montreal	OX7-0810
Can	Aeromotive Eng. Products Ltd.	1912A Avenue Rd. Toronto, Ont.	RU3-4288
	ASSOCIATED ENGRG & MFG. CORP.	**210 Stonehouse Rd. Glen Ridge, NJ**	**PI3-8899**
Cal	W. T. Kershner	6534 Whittier Blvd. Los Angeles 22	
	ASSOCIATED NUCLEONICS INC.	**975 Stewart Ave. Garden City, NY**	
	ASSOCIATED RESEARCH, INC.	**3789 W Belmont Ave. Chicago 18, Ill**	**CO7-4040**
Cal	Brenner-Fiedler & Assoc. Inc.	7563 Melrose Ave. Los Angeles	WE6-7128
Cal	California Instrument Co.	351 10th St. San Francisco	UN3-0350
Colo	Parrish Electronics	2130 S Albion, Denver	SK6-9456
DC	L.O. Morrow & Son	The Schaff Bldg. Philadelphia, Pa	LO7-6431
Ga	A.C. Craft, Jr.	Box 11716, Atlanta	CE3-9944
Mass	Electrical Apparatus Co.	1200 Soldiers Field Rd. Boston 34	ST2-7440
Mich	Electro-Mation Associates	4012 E Nine Mile Rd (Warren), Detroit	JE9-1420
NJ	Kahani Associates	11 Park Pl. New York City	CO7-5526
NY	H. J. Rittenhouse Co.	543 Clinton Ave. S, Rochester	BA5-2340
Ohio	L. H. Waldrip Co.	3030 Euclid Ave. Cleveland	EX1-4242
Pa	W. H. Bollinger	Box 8088, Pittsburgh	LO1-2340
Tex	The Kantenberger Co.	711 Reverchon Dr. Dallas	WH8-9836
	ASSOCIATED SPECIALTIES CO.	**1751 Main St. Orefield, Pa**	**EX5-1275**

	ASSOCIATED TESTING LABS. INC.	**134 Rt. 46, Wayne, NJ**	**CL6-2800**
Cal	B. J. Wolfe Enterprises	Box 281, Northridge	DI5-2407
Colo	Western States Equip. Sales Co.	142 Broadway, Denver 3	PE3-4847
DC	F. Israel Associates	1010 Vermont Ave. NW, Washington 5	EX3-3453
Fla	Jaeger-Cordray, Inc.	1809 E Colonial Dr. Orlando	CH1-6595
Fla	Associated Testing Labs. Inc.	1112 Solana Ave. Winter Park	MI4-1800
Mich	Gaine Engineering	1474 E Outer Dr. Detroit 34	FO6-5353
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis 30	PA6-2233
NC	J. L. Highsmith & Co.	3733 Monroe Rd. Charlotte 5	
Ohio	H. S. Stobbs	2279 Seminole Ave. Springfield	FA4-2002
Pa	Bystrom & Associates	Box 292, Radnor	MU8-1284
Can	Electrodesign	9124 St. Lawrence Blvd. Montreal 11	
	ASSOCIATED VALVE CO.	**Walnut & Center, North Wales, Pa**	**OX9-4485**
Cal	G. Yardley Co.	902 E 17th St. Santa Ana	
Colo	Instrument Service Co.	833 Champa St. Denver 4	AL2167
Ill	Instrument Associates	7943 S Exchange Ave. Chicago 17	EE5-2702
Pa	E. Elliot & Co.	560 N 16th St. Philadelphia 30	LO7-6344
Tex	P. Condit Co. Inc.	Box 20094, Houston 25	JA2-1909
Wash	E. A. N. Johnson	Box 98, Edmonds	PR8-1486
	ASTRA, INC.	**Box 226, Raleigh, NC**	**VA8-4387**
	ASTRON CORP.	**255 Grant Ave. East Newark, NJ**	
Cal	B. Kolans & Co.	219 California Dr. Burlingame	DI4-7111
Cal	Shephard Winters Co.	3193 Cahuenga Blvd. W, Hollywood 28	HO6-2171
Colo	Peyser & Co.	1501 N Weber St. Colorado Springs	ME4-3401
Ga	P. Hayden Associates	Box 331, East Point	PO6-0261
Ill	W. F. Swinke, Inc.	541 Diversey Pkwy, Chicago 14	BI8-4343
Mass	A.E. Akeroyd Co.	70 Reservoir Rd, Chestnut Hill 67	RE4-2433
Mich	R. S. Lohmann Co.	12730 Fenkell, Detroit 27	UN2-9465
Mo	Kay Sales Co.	2600 Grand Ave. Kansas City 8	BA1-3800
NJ	W. Shulan & Co.	880 Bergen Ave, Jersey City	SW5-2220
NY	H. J. Abbott	3939 Wicks Ave. Seaford	SU1-5256
Pa	S. A. Jeffries, Inc.	105 Forrest Ave. Narberth	MO4-8500
Can	C. W. Pointon Ltd.	66 Racine Rd. Rexdale, Ont.	CH7-8777
	ATELIERS DE CONSTRUCTIONS ELECTRIQUES DE CHARLEROI	**Charleroi, Belg.**	**07-36.20.20**
Fr	Soc. Nouvelle des Ets. BECA	44 Rue Blanche, Paris 9e	TRS744
Ger	Gevel, GmbH.	Schadowplatz 12, Dusseldorf	84981
Eng	A. C. E. C.	Fulwood Pl. London, WC1	CH2932-3
Ital	A. C. E. C., Filiale Ital.	Via Alberto da Giussano, 15 Milan	
Neth	N. V. Frowijn & Co.	165 Hoofdstr. - B.P. 16, Apeldoorn	6141
Port	Inel	Rua Rodrigo da Fonseca, 76-4, Lisbon-N.	730161
Spn	S. P. I. s. a.	Heroes del Diez de Agosto, 11, Madrid	35.60.05
	ATKINS & MERRILL, INC.	**Post Rd. Sudbury, Mass**	**HU1-[illegible]**
Cal	Atkins & Merrill, West, Inc.	1701 Placentia Ave. Anaheim	KE2-5396
DC	S. A. Cravotta	6141 N 11th Rd. Arlington, Va	JE2-4891
Mass	Atkins & Merrill, Inc.	Bartlett St. Marlboro	HU5-4120
	ATKINS TECHNICAL INC.	**1276 W 3rd St., Cleveland 13, Ohio**	**SU1-1333**
Cal	Jensen Instrument Co.	429 Bryant St. San Francisco	EX2-1472
Cal	Jensen Instrument Co.	1919 Beverly Blvd. Los Angeles	DU8-2248
Fla	The Gearhart Co.	2513 Catalina Dr. Orlando	GA2-8024
Ga	The Gearhart Co.	Gearhart Bldg. Atlanta 19	CE3-4431
Ky	McNay Equipment Co.	4850 Cooper Rd. Cincinnati 42	TW107122
Md	H. A. McCormick	Phoenix PO, Baltimore County	NO6-2333
Mass	Manufacturers Agent Sales	39 Oak St. Indian Orchard	LI3-1154
Mo	Sales Engineering	6653 Enright, St. Louis 5	PA5-4271
NJ	Bonn Associates	57 New St. Metuchen	LI9-9573
Okla	Taylor Mullaly Co.	Box 9734, Oklahoma City	JA4-3384
Pa	R. F. Clark Co.	Clark Bldg. Pittsburgh 22	AT1-8089
Tex	Gulf Coast Instrument Co.	5516 Gulf Freeway, Houston	WA8-2421
	ATKOMATIC VALVE CO., INC.	**545 W Abbott St. Indianapolis, Ind**	**ME8-6545**
Cal	Brenner-Fiedler & Assoc. Inc.	7563 Melrose Ave. Los Angeles	WE3-3811
Colo	Rocket Components Co.	2950 S Fox St. Englewood	SU9-2548
Ill	Smith & MacKay	8008 S Ashland Ave. Chicago	RA3-4300
Mass	Pump Eqpt. & Engineering Co.	79 Prospect St. Somerville 43	MO6-[illegible]
Mich	L. W. Jeffries Co.	16722 E Warren Ave. Detroit	TU2-9551
Mo	Zeppenfeld & Co.	14 Westwood Forest, Kirkwood 22	TA2-2333
NY	Gale Engineering Co.	136 Liberty St. New York 6	RE2-1105
NC	Mec-Tric Control Co.	3811 St. Mary Ave. Charlotte	FR8-[illegible]
Ohio	Richard Equipment Co.	2994 Woodburn Ave. Cincinnati	AV1-5283
Pa	J. C. Whiddett Co.	7714 W Chester Pike, Upper Darby	TR8-6400
Tex	Southwestern Controls	5633 Urbana St. Houston 27	MO6-0386
Wash	F. G. Greaves Co.	418 8th Ave. N, Seattle 9	MA3-0680
	ATLANTIC PYROMETERS, INC.	**190 Warburton Ave. Hawthorne, NJ**	**HA7-5877**
Ill	Hawkins Engineering Sales Corp.	6517 N Central Ave. Chicago 30	SP4-2244
Mass	J.-W. Devine Co.	63 Prince St. Needham	HI4-2784
Mich	Anger Associates	13126 Michigan Ave. Dearborn	LU4-9883
NY	R. C. Schwarz & Sons	75 College Ave. Rochester 7	SR1-[illegible]
NY	R. C. Schwarz & Sons	Box 26, N Tonawanda	LU7433
Ohio	K. J. Lesker Co.	4206 Chester Ave. Cleveland	EX1-7360
Ohio	C-K-M Industrial Sales	4407 Brazee, Cincinnati 9	ME1-1193
Ore	Fryer & Co. Inc.	2035 SW 58th Ave. Portland 1	CA6-3733
Pa	K. J. Lesker Co.	4535 Venan Ave. Pittsburgh 27	TU1-4666
Pa	D. Y. Daily & Co.	Box 213, Springfield, Delaware Cty.	KI3-1121
Tex	R. R. Clarke Co.	3115 Buffalo Dr. Houston 19	JA6-4908
	ATLANTIC RESEARCH CORP.	**Alexandria, Va**	**FL4-3400**
Cal	Atlantic Research Corp.	2799 E Foothill Blvd. Pasadena	MU1-9590

	ATLAS ENGINEERING CO., INC.	**176 Blue Hill Ave. Roxbury, Mass**	**HI5-7100**
	ATLAS TITANIUM LTD.	**Centre St., Welland, Ont, Can**	**RE5-5661**
	ATLAS VALVE CO.	**280 South St. Newark 5, NJ**	**MI2-2464**
Cal	Duncan Engineering & Eqpt. Co.	4050 Buckingham Rd. Los Angeles 8	AX5-4421
Cal	Martin Co.	709 Sutro Ave. Novato	TW2-6452
Ill	Automatic Steam Sales Co.	4452 W 16th St. Chicago 23	RO2-8150
Mass	Pump Equipment & Engineering	79 Prospect St. Somerville	MO6-4444
Mich	Garrett Burgess, Inc.	4660 Oakman Blvd. Detroit	TE4-5770
Minn	Blest Evans Co.	2803 Riverside, Minneapolis 6	
NY	Automatic Regulator Co.	40 Journal Sq. Jersey City, NJ	WO8-2397
NY	A. M. Seymour Associates	Box 3993, Rochester 10	LO2-9843
Ohio	S. Proctor Co.	1900 Euclid Ave. Cleveland	PR1-0350
Pa	J. W. Pearson	409 Crescent Rd. Hatboro	OS5-3080
Pa	Controlomatics Co.	345 Mt. Lebanon Blvd. Pittsburgh 34	LO3-4611
Tex	G. B. Allen & Co.	801 S Akard St. Dallas 1	EA2-4076
	ATOMASTERS-BUNTAINE CORP.	**111 W Jewel Ave. St. Louis 22, Mo**	**TA2-1961**
	ATOMATION, INC. DIV. C. W. REED CO., INC.	**5959 S. Hoover, LA 44, Cal**	**PL3-2221**
Cal	C. W. Reed Co. Inc.	376-60th St. Oakland 18	OL4-2665
DC	Wilco Associates, Inc.	733-15th St. NW, Washington	EX3-0451
Ill	ATOMasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22, Mo	TA2-1961
Mich	B. Z. Rubin	12838 Fenkell Ave. Detroit 27	UN4-4958
Can	RC Testing & Control Systems	618 Vaughan Rd. Toronto 10, Ont	HU1-6658
	ATOMIC ACCESSORIES, INC.	**811 W Merrick Rd. Valley Stream, NY**	**CU5-9300**
Cal	Baird-Atomic, Inc.	2312 W Redondo Beach Blvd. Gardena	FA1-4466
Cal	Baird-Atomic, Inc.	1485 Bayshore Blvd. San Francisco 24	DE4-0515
Ga	Baird-Atomic, Inc.	3127 Maple Dr. NE, Atlanta 5	CE3-8295
Ill	Baird-Atomic, Inc.	540 N Lake Shore Dr. Chicago 11	MI2-6755
Md	Baird-Atomic, Inc.	9403 Fresno Rd. Bethesda 14	OL6-1200
Mass	Baird-Atomic, Inc.	33 University Rd. Cambridge 38	UN4-7420
Mich	Baird-Atomic, Inc.	30129 Minton, Livonia	GA1-7169
NY	Baird-Atomic, Inc.	811 W Merrick Rd. Valley Stream	CU5-5400
Pa	Baird-Atomic, Inc.	413 Johnson St. Jenkintown	WA7-4676
Pa	Baird-Atomic, Inc.	603 Laurel Dr. Monroeville	EL1-1500
Tex	Baird-Atomic, Inc.	5635 Yale Blvd. Dallas 6	EM1-6081
Can	Baird-Atomic, Inc.	465 Gilmour St. Ottawa, Ont.	CE2-9810
	ATOMIC DEVEL. & MACHINE CORP.	**15-04 130th St. College Point 56, NY**	**IN1-0470**
	ATOMIC ENERGY of CANADA LTD. COMMERCIAL PRODUCTS DIV.	**Box 93, Ottawa, Ont. Can**	**PA8-1841**
Del	A. B. Edwards	1 Belmont Ave. Bala-Cynwyd, Pa	
Md	A. B. Edwards	1 Belmont Ave. Bala-Cynwyd, Pa	
NJ	A. B. Edwards	1 Belmont Ave. Bala-Cynwyd, Pa	
Pa	A. B. Edwards	1 Belmont Ave. Bala-Cynwyd	
	ATOMIC FILM BADGE CORP.	**43 W 61 St. New York 23, NY**	**JU6-6520**
	ATOMIC PERSONNEL, INC.	**1518 Walnut St. Phila 2, Pa**	**PE5-4908**
	ATOMIC RESEARCH LAB.	**14725 Arnaiste Ave. Panorama City, Cal**	**TR3-3093**
	ATOMICS INTERNATIONAL, DIV. N. A. A. INC.	**Box 309, Canoga Park, Cal**	**DI1-1000**
	ATOMIUM CORP.	**940 Main St. Waltham, Mass**	**TW4-6900**
	ATWOOD & MORRILL CO.	**Salem, Mass**	**PI4-5690**
Cal	O. B. Lyman Co.	55 New Montgomery St. San Francisco	SU1-6438
Cal	Southport Corp.	235 W 32nd St. Los Angeles	RI8-5191
DC	Atwood & Morrill Co.	1329 E St. NW, Washington	EX3-4484
Fla	T. C. Heyward & Co.	306 W Adams St. Jacksonville	EL5-3521
Ill	Hardin & Simmons	140 S Dearborn St. Chicago	RA6-1531
Mo	Midwestern Power Eqpt. Co.	1214 W 47th St. Kansas City 12	VA1-7507
NY	Ward & Schade, Inc.	150 Broadway, New York	CO7-2740
NC	T. C. Heyward & Co.	518 E Morehead St. Charlotte	FR7-2678
Pa	G. R. Kepner Co.	1721 Oliver Bldg. Pittsburgh	AT1-3595
Pa	Ward & Schade, Inc.	720 Bethlehem Pike, Philadelphia	AD3-2727
Tex	Haylett O'Neill & Son	2510 Travis St. Houston	JA9-3879
Wash	Bumstead-Woolford Co.	1411 4th Ave. Seattle	MA3-4915
	AUBURN MFG. CO.	**500 Stack St. Middletown, Conn**	**DI6-6631**
Conn	G. Shaffer	R. F. D. 3 Coventry	PI2-7135
Mich	A. R. Dixon	4346 Woodward Ave. Royal Oak	JO6-3160
NY	J. C. Newman, Jr.	290 Somenhire Dr. Rochester 17	CO6-4334
NY	M. Chayette	1546 St. Johns Pl. Brooklyn 13	PR2-4624
	AURORA PUMP DIV. N Y AIR BRAKE CO.	**619 Loucks St. Aurora, Ill**	**TW2-4381**
Ga	Aurora Pump Div.	2139 College Ave. NE, Atlanta 17	DR3-7579
Ill	Aurora Pump Div.	407 S Dearborn St. Chicago 5	WA2-0100
NY	Aurora Pump Div.	230 Park Ave. New York 17	LE2-1900
	AUSTENAL CO., DIV. HOWE SOUND CO. - MICROCAST PRODS.	**224 E 39 St. New York 16, NY**	**OX7-5656**
Cal	J. M. Uhle	5166 Bascule, Woodland Hills	DU[illegible]
Conn	Austenal Co.	119 Ann St. Hartford	CH9-8593
Ind	Austenal Co.	1110 E Lincoln Way, Laporte	LA4161
Mass	Austenal Co.	7 Willow St. Lynn	LY3-3390
NJ	E. A. Schadewald	Box 625, Dover	FO6-3586
Ohio	Austenal Co.	1717 Section Rd. Cincinnati	ME1-4520
	AUSTIN CO.	**16112 Euclid Ave. Cleveland 12, Ohio**	**GL1-5400**
Cal	The Austin Co.	1660 Wilshire Blvd. Los Angeles 17	HU3-4580

Ill	The Austin Co.	610 N Dearborn St. Chicago 10	SU7-6100
Mich	The Austin Co.	2842 W Grand Blvd. Detroit 2	TR5-8874
NJ	The Austin Co.	450 W 1st Ave. Roselle	CH5-4000
Tex	The Austin Co.	1000 M & M Bldg. Houston 2	CA8-0434
Wash	The Austin Co.	2930-4th Ave. S, Seattle 4	MA4-5020
Arg	Austin Ingen. y Construcciones Avda. Pte. J. A. Roca 610, Buenos Aires		SA42-7717
Braz	Austin Engenharia, Ltd.	Caixa Postal, 2899, Sao Paulo	37-3564
Can	The Austin Co. Ltd.	820 Dominiom Sq. Bldg. Montreal 2, Que	UN1-8509
Eng	Austin Engrs. Builders, Ltd.	Team Valley Trading Est. Gateshead-on-Tyne 11	LO7-8431

AUTOCALL CO. ..... Shelby, Ohio 3-1015

Cal	A. H. Monson	360 6th St. San Francisco 3	UN1-2050
Cal	C. Glass	1420 W 9th St. Los Angeles 15	DU8-1343
Conn	J. E. O'Connor	920 Hopmeadow St. Hartford	OL8-7914
Ga	A. B. Kibby	333 Candler Bldg. Atlanta 3	JA3-1062
Ill	T. F. Hornaday, Jr.	1733 E 75th St. Chicago 49	HY3-1426
Mich	H. C. Munchausen	339 Curtis Bldg. Detroit 2	TR5-2806
NY	J. H. Munchasen	521 Fifth Ave. New York 17	YU6-7672
NY	F. H. Poland	353 Ellicott Sq. Buffalo 3	WA3350
Ohio	R. M. Austin	16202 Hilliard Rd. Cleveland 7	AC1-0788
Ohio	W. J. Davis	2637 Erie Ave. Cincinnati 8	TR1-2217
Pa	W. H. Metzgar	1720 Sansom St. Philadelphia 3	LO8-4995
Wis	L. B. Schloemer	2333 W Wells St. Milwaukee 3	DI3-5300

AUTOCLAVE ENGINEERS INC. 2930 W 22 St., Erie, Pa TE8-2071

Ill	Autoclave Engineers Sales Corp.	1103 Westgate Ave. Oak Park	EU3-2767
Ind	Autoclave Engineers Sales Corp.	1103 Westgate Ave. Oak Park, Ill.	EU3-2767
Iowa	Autoclave Engineers Sales Corp.	1103 Westgate Ave. Oak Park, Ill.	EU3-2767
NJ	Autoclave Engineers Sales Corp.	Bldg. 1-Newark Airport, Newark 5	MA3-4355
NY	Autoclave Engineers Sales Corp.	Bldg. 1-Newark Airport, Newark 5, NJ	MA3-4355
Pa	Autoclave Engineers Sales Corp.	Bldg. 1-Newark Airport, Newark 5, NJ	MA3-4355
Can	Autoclave of Canada, Ltd.	289 Bering Ave. Toronto 18, Ont.	BE1-7661

AUTOCON IND. INC. DIV.
AUTOMATIC CONTROL CO. 995 University Ave. St. Paul 4E, Minn MI6-1801

Can	Telcon, Ltd.	Toronto, Ont

Sales Offices/Representatives in all principal cities.

AUTOMATIC ELECTRIC SALES CORP. Northlake, Ill FI5-7111

Cal	Automatic Electric Sales Corp.	4415 W Pico Blvd. Los Angeles	WE8-2093
DC	Automatic Electric Sales Corp.	1120 Connecticut Ave. NW, Washington	FE7-6600
Fla	Automatic Electric Sales Corp.	711 Magnolia Ave. Orlando	GA5-8343
Mass	Automatic Electric Sales Corp.	751 Main St. Waltham	TW9-8638
Mich	Automatic Electric Sales Corp.	New Center Bldg. Detroit	TR5-5511
Minn	Automatic Electric Sales Corp.	7600 Hwy. 97, Minneapolis	WE5-3481
Mo	Automatic Electric Sales Corp.	2021 Main St. Kansas City	HA1-7575
NY	Automatic Electric Sales Corp.	730 3rd Ave. New York	MU7-3050
Ohio	Automatic Electric Sales Corp.	8905 Lake Ave. Cleveland	PR1-6226
Pa	Automatic Electric Sales Corp.	6816 Market St. Upper Darby	FL2-7023
Tex	Automatic Electric Sales Corp.	318 N Pearl St. Dallas	RI2-2616

AUTOMATIC SWITCH CO. ..... 56M Hanover Rd. Florham Park, NJ FR7-4600

Cal	Automatic Switch Co.	1233 Goodrich Blvd. Los Angeles 22	RA3-3669
DC	J. J. Herrity	National Press Club Bldg. Washington 4	NA8-6561
Ga	Rittelmeyer & Co. Inc.	150 Nassau St. NW, Atlanta 1	JA4-1531
Ill	Automatic Switch Co.	2221 W Howard St. Chicago 45	RO1-7450
Mass	Automatic Switch Co.	1447 Washington St. W Newton 65	LA7-5700
Mich	C. Adams, Inc.	17360 W 8 Mile Rd. Southfield	KE8-2100
Minn	Pierre Lenmark Co.	6504 Walker St. Minneapolis 26	WE9-2631
NJ	Automatic Switch Co.	1500 Kings Hwy. E, Haddonfield	HA9-0300
Ohio	Anderson-Bolds, Inc.	2012 W 25 St. Cleveland 13	PR1-7112
Tex	Glidden Engrg. & Eqpt. Co.	3802 Winchester St. Houston 3	CA6-6471
Wash	Standard Electric Sales	204 W Lucile St. Seattle 4	PA5-9443
Wis	G. E. Beverly Co. Inc.	5856 N Port Washington Rd, Milwaukee 17	WO2-2294

AUTOMATIC TIMING & CONTROLS, INC. King of Prussia, Pa BR9-1100

Ariz	Technical Services Co. Inc.	2430 E Washington St. Phoenix	BR5-5423
Cal	Time-Trol, Inc.	5755 Van Nuys Blvd. Van Nuys	ST1-3202
Ga	Control Equipment Co.	Box 11795, Atlanta 5	CE7-1688
Ill	ATC, Inc.	6101 Northwest Hwy. Chicago 31	NE1-1034
Mass	Cowperthwait & Brodhead	570 Hillside Ave. Needham Hts. 94	HI4-9410
Mich	H. H. Barnum Co.	12201 Merriman Rd. Livonia	KE1-7504
Mo	B. Greaves Co.	8701 Antler Dr. St. Louis 17	PA6-2205
NY	ATC, Inc.	470 North Ave. Elizabeth 3, NJ	EL4-3308
Ohio	ATC, Inc.	2978 W 25th St. Cleveland 13	MA1-8880
Can	Automatic Timing & Controls	5485 Notre Dame St W Montreal 30, Que	WE2-1040
For	ATC Export Dept.	1505 Race St. Philadelphia 2, Pa	LO4-4020

AUTOMATION PRODUCTS, INC. 3030 Max Roy St. Houston 24, Tex UH9-1485

Ark	Rawson & Co. Inc.	Box 2881, Baton Rouge, La.	DI4-9407
Cal	Barton Sales Co.	350 S Atlantic Blvd. Monterey Park	AT9-3549
Ill	B & G Automation Sales Corp.	Box 412, Harvey	ED3-1485
Ind	B & G Automation Sales Corp.	Box 412, Harvey, Ill	ED3-1485
Ky	Allied Controls Co.	Box 8283, S Charleston, W Va	PO8-7313
La	Rawson & Co. Inc.	Box 2881, Baton Rouge	DI4-9407
Miss	Rawson & Co. Inc.	Box 2881, Baton Rouge, La	DI4-9407
Pa	R. F. Clark Co.	Clark Bldg. Pittsburgh	AT1-8089
Tex	Rawson & Co.	Box 13292, Houston	JA6-3836
W Va	Allied Controls Co.	Box 8283, S Charleston	PO8-7313

AUTOMOTIVE & AIRCRAFT DIV. AMER. CHAIN & CABLE CO., INC.
601 Stephenson Bldg. Detroit, Mich

AUTONETICS DIV. NORTH AMER. AVIATION 9150 E Imperial, Downey, Cal

Cal	Autonetics Div.	3584 Wilshire Blvd. Los Angeles 5	DU3-2161
Cal	Autonetics Div.	1838 El Camino Real, Burlingame	OX7-5444
DC	Autonetics Div.	905 16th St. NW, Washington 5	EX3-3346
Ill	Autonetics Div.	130 E Randolph Dr. Chicago 1	WH4-4522
Mass	Autonetics Div.	1330 Beacon St. Brookline	RE4-2610
NY	Autonetics Div.	717 5th Ave. New York 22	PL2-0565

AUTOTRON, INC. ..... 3629 N Vermilion St. Danville, Ill HI6-0650

Cal	W. W. Corman	7432 W 80th St. Los Angeles 45	OR0-2520
Fla	F. Wamble Sales Co.	370 NE 147 Terrace, N Miami 61	
Mass	White Sales Co. Inc.	945 Great Plain Ave. Needham 92	HI4-3676
Minn	R. E. Stemm, Inc.	123 S 3rd St. Minneapolis 1	FE5-7172
Mo	Wells-White Co.	3937 Main St. Kansas City 11	JE1-6400
NY	Crane & Egert Corp.	97 Reade St. New York 13	WO4-0996
Ohio	J. W. Murray Co.	Box 28, Westwood Br. Cincinnati 11	HU1-9726
Pa	J. T. Fuhrman, Jr.	6822 Thomas Blvd. Pittsburgh 8	MO1-3838
Tex	Brice Sales & Service	2425 W Holcombe, Houston 25	MO5-3978
Wash	C. B. Parsons & Co.	3028 1st Ave. Seattle 1	MU6780
Wis	Bruce Equipment Co.	2609 W Mineral St. Milwaukee 4	OR1-0420
Can	Higginson Equip. Sales	1131 Pettit Rd. Burlington, Ont	NE4-0101

AVCO RESEARCH & ADV. DEVEL. DIV. 201 Lowell St. Wilmington, Mass ... OL8-8911

Ala	R. Attaway Co.	2316 Bob Wallace Ave. SW, Huntsville	JE2-2811
Ala	S. S. Lee Associates	2315 Utilities Bldg. Huntsville	JE6-0631
Cal	Pacific Scientific Co.	6280 Chalet Dr. Bell Gardens	SP3-2020
Colo	Hyde Electronics Co.	888 S Lipan St. Denver 23	WE6-3456
Conn	Equipment Sales Co. Inc.	Box 6098, New Haven 17	CH8-5581
Ill	Maher Engineering Co.	4335 W Peterson Ave. Chicago 30	PE6-8747
Mich	Anger Associates	13126 Michigan Ave. Dearborn	LU4-9853
NJ	V. A. Snyder Co. Inc.	2165 Morris Ave. Union	MU8-6100
Wash	Technical Sales Co.	1731 1st Ave. S, Seattle	PA5-9440
Wash	Pacific Scientific Co.	421 Michigna St. Seattle 8	PA8-7000

AVELEY ELECTRIC, LTD. ..... S Ockendon, Essex, Eng SO3444

AVERY & SAUL CO. ..... 115 Rindge Ave. Cambridge, Mass

AVIEN, INC. ..... 58-15 Northern Blvd. Woodside 77, NY YE2-4600

Ariz	Western Engineering Co.	8925 N 17 Ave. Phoenix
Cal	Avien Service Corp.	1269 S Boyle Ave. Los Angeles 23
Colo	Western Engineering Co.	306 Enterprise Bldg. Denver
Ohio	Avien, Inc.	58 Linden Ave. Dayton 3
Tex	Avien, Inc.	7109 Grapevine Hwy. Fort Worth
Wash	Avien, Inc.	Box 626, Bellevue

AVONDALE SHIPYARDS, INC. Box 1030, New Orleans 8, La UN6-4561

AVTRON MANUFACTURING, INC. 10409 Meech Ave. Cleveland 5, Ohio MI1-8310

Cal	Avtronics	603 W Manchester Blvd. Inglewood 1	OR8-9045
Fla	Ludlum Associates Co.	4471 NW 36th St. Miami Springs 48	TU5-3611
Ga	A. C. Craft & Associates	Box 11716, Northside Sta. Atlanta 5	CE3-9944
Kan	Associated Air Services	315 E Harry St. Wichita	AM7-7663
Mo	P. E. M. Sales	8618 Brookshire, University City 24	WY1-1539
Ohio	Martin-Rettger, Inc.	11955 Shaker Blvd. Cleveland 20	SW1-8787
Ohio	N. A. Wright	Box 87, Centerville	TU5-2611
Tex	Electro-Mechanical Associates	6115 Denton Dr. Dallas 35	FL1-5515
Wash	J. Findlay Co.	Box 717, Bellevue	GL4-5200
Can	Aircraft Appliances & Eqpt. Ltd.	585 Dixon Rd. Rexdale, Ontario	CH4-5506
For	American Avitron	514 Halstead Ave. Mamaroneck, NY	OW8-9210

AXEL ELECTRONICS, INC. .... 134-20 Jamaica Ave. Jamaica 18, NY AX1-3900

Cal	McKnight Co.	1436 El Camino Real, Menlo Park
Cal	Charrett Co.	7410 W 86th St. Los Angeles 45
Cal	D. DeHaas Co.	3651 Garrison St. San Diego 6
Ga	F. Fausset Co.	777 Pinehurst Terrace, SW, Atlanta 10
Ill	R. E. Stemm Co.	5681 W Lake St. Chicago
Mass	Hathaway Electronics	238 Main St. Cambridge
NY	Hecht Electronics, Inc.	31 Snapdragon Ln. Roslyn Hts.
NY	M. J. Del Grosso	2329 Seymour Ave. Bronx 60
Ohio	L. D. Bruno	Far Hills Br. Box 61, Dayton
Pa	L. E. Slubin Co.	5301 Fairmont Ave. Philadelphia
Tex	Air Equipment Sales Co.	5608 Inwood Rd. Dallas 35
Wash	R. Johnston Co.	1011 E 60th St. Seattle 15

AYLING NUCLEAR EQUIP. CO. LTD. Foundry La, Horsham, Sussex, Eng

B-I-F INDUSTRIES, INC. ..... 530-D Harris Ave. Providence 1, R.I. GA1-4302

Cal	B-I-F Industries, Inc.	5430 Jillson St. Los Angeles 22	RA3-1235
DC	B-I-F Industries, Inc.	6230 3rd St. NW, Washington 11	TU2-9026
Ill	B-I-F Industries, Inc.	6206 N Milwaukee Ave. Chicago 46	RO3-4030
La	B-I-F Industries, Inc.	Box 4765, Baton Rouge 6	DI3-4451
Mass	B-I-F Industries, Inc.	9 School St. Islington	DA6-5690
Mich	W. A. DaLee, Inc.	9190 Roselawn Ave. Detroit 4	WE3-4430
Mo	B-I-F Industries, Inc.	2108 W 75th St. Kansas City	EN2-3361
NY	B-I-F Industries, Inc.	20 Vesey St. New York 7	CO7-0117
Ore	The Instrument Laboratory, Inc.	1316 SE 7th Ave. Portland 14	BE4-6683
Pa	B-I-F Industries, Inc.	628 W Rittenhouse St. Philadelphia 44	VI8-5100
Tex	B-I-F Industries, Inc.	4519 N Central Expwy. Dallas	LA8-8631
Wash	The Instrument Laboratory, Inc.	934 Elliott Ave. Seattle 99	AT3-5850

B/W CONTROLLER CORP. .... 2200 E Maple Rd. Birmingham, Mich MI4-5940

Conn	Masten-Wright Corp.	Box 1896, New Haven	AT8-1638
NY	Nickles Engineering Co.	830 Linden Ave. Rochester 25	LU6-4980
NY	E. W. Rowland Associates	90 West St. New York 6	WO4-7188

Ohio	S. J. Vereb	4619 E 93rd St. Garfield Heights 25	VU3-6999
Ohio	R. C. Butke	1427 Beaverton, Cincinnati 37	VA1-3410
Okla	P. King Co.	Box 15827, Tulsa 15	TE6-2501
Pa	D. S. Stuckey	1 Belmont Ave. Bala-Cynwyd	TR8-8448
Wis	I. I. Aaron & Associates	829 N Marshall St. Milwaukee 2	BR6-8515

BABB & CO. ..... **3 Gateway Center, Pittsburgh 22, Pa** **EX1-1822**

BABCOCK RELAYS, INC. ..... **1645 Babcock Ave. Costa Mesa, Cal**

Cal	E. Landa Co.	1736 Westwood Blvd. Los Angeles 24	BR2-9555
Colo	Spicer Lindsay Assoc.	4960 E Evans, Denver 22	GR7-1247
Conn	Abbott-Allison Co.	Box 467, Meriden	BE7-9232
Fla	J. Gearner Co.	235 Lincoln Rd. Miami Beach	JE1-0200
Ill	Carlson Electronic Sales	6677 N Northwest Hwy. Chicago 31	
Minn	S. Clothier Co.	15 W 58th St. Minneapolis 19	TA5-1234
Mo	Kay Sales Co.	2600 Grand Ave. Kansas City 8	BA1-3390
NJ	C. Boenecke Assoc.	5505 Westfield Ave. Pennsauken	NO2-8650
NY	Repco Electronic Sales Co. Inc.	356 W 40th St. New York 18	OX5-6980
NY	Reed-Tollefson Corp.	2815 Monroe Ave. Rochester 18	HI5-0450
Ohio	G & H Sales Co.	Roselawn Center Bldg. Cincinnati 37	JE1-0563
Tex	Packard Associates	Love Field Term Bldg. Dallas 35	FL7-5713

BABCOCK & WILCOX CO. ..... **161 E 42 St. New York 17, NY** **MU7-6700**

Va	Atomic Energy Div.	1201 Kemper St. Lynchburg	

BABCOCK & WILCOX CO. TUBULAR PRODUCTS DIV. Beaver Falls, Pa ... **TI6-6100**

Cal	B & W Tubular Prods. Div.	1111 Wilshire Blvd. Los Angeles 17	HU2-2633
Ill	B & W Tubular Prods. Div.	105 S LaSalle St. Chicago 3	FR2-4481
Mass	B & W Tubular Prods. Div.	66 Central St. Wellesley 81	CE5-8500
Mich	B & W Tubular Prods. Div.	1717 Ford Bldg. Detroit 26	WO1-0630
Mo	B & W Tubular Prods. Div.	3615 Olive St. St. Louis 8	JE5-7150
NY	B & W Tubular Prods. Div.	731 James St. Syracuse 2	GR4-2435
NY	B & W Tubular Prods. Div.	666 3rd Ave. New York 16	YU6-5533
Ohio	B & W Tubular Prods. Div.	2330 Victory Pkwy. Cincinnati 6	CA1-2530
Pa	B & W Tubular Prods. Div.	2222 Packard Bldg. Philadelphia 2	LO4-0322
Tex	B & W Tubular Prods. Div.	2134 Welch St. Houston 19	JA9-3521

BABCOCK-WILCOX & GOLDIE-McCULLOCH, LTD. ..... **Coronation Blvd. Galt, Ont, Can** **GA621-2130**

BC	C. C. Moore & Co. Engineers	510 Hastings St. W, Vancouver	MU3-7936
Can	Babcock-Wilcox	4920 Western Ave. Montreal, Que	HU1-0308
Can	Babcock-Wilcox	321 Bloor St. E Toronto, Ont	WA4-0966
Can	Babcock-Wilcox	513-8th Ave. W Calgary	AM2-7066
NS	Austen Bros. Ltd.	118 Hollis St. Halifax	

BABCOCK & WILCOX LTD. ..... **209 Euston Rd. London, NW1, Eng** **EU4321**

NY	Babcock & Wilcox, Ltd.	161 E 42nd St. New York	MU7-6700

BACHE & CO. SEMON ..... **636 Greenwich St. New York 14, NY** **WA4-2121**

Ill	M. S. Kriegel	608 S Dearborn St. Chicago 5	HA7-4243
NY	E. J. Taylor	1600 East Ave. Rochester 10	HI5-3728

BACON INDUSTRIES, INC. ..... **192 Pleasant St. Watertown, Mass** **WA4-5000**

BADGER MFG CO. ..... **230 Bent St. Cambridge, Mass**

Cal	Southport Engineering Co.	235 W 32nd St. Los Angeles 7	
Cal	S. C. Pardee	670 Monadnock Bldg. San Francisco	
Colo	Ambler Co.	Box 591, Denver 1	
Fla	R. W. Fowler & Assoc.	Box 1587, Atlantic Beach	
Ill	Eagle Industrial Co.	1021 N 18th St. E St. Louis	
Ill	Hayden & Co.	53 W Jackson Blvd. Chicago 4	
NY	Piping Specialties, Inc.	114 Liberty St. New York 6	
NC	T. C. Heyward Co.	Box 3066, Charlotte 3	
Ohio	Rupert-Ryan Co.	5420 McBride Ave. Cleveland 27	
Pa	Tutein Equipment Co.	11-13 W Prospect Ave. Pittsburgh	
Pa	C. Eastman Co.	43 S 23rd St. Philadelphia	
Utah	Riter Engineering Co.	Box 2187, Salt Lake City	

BAILEY METER CO. ..... **29801 Euclid Ave. Wickliffe, Ohio** **WH3-5500**

Cal	Bailey Meter Co.	816 S Atlantic Blvd. Monterey Park	CU3-1187
Cal	Bailey Meter Co.	55 New Montgomery St. San Francisco	SU1-0926
Ga	Bailey Meter Co.	1145 Peachtree St. Atlanta	TR6-5531
Ill	Bailey Meter Co.	53 W Jackson Blvd. Chicago	HA7-7324
Mass	Bailey Meter Co.	395 Concord Ave. Belmont	IV9-0150
Mich	Bailey Meter Co.	18928 W McNichols Rd. Detroit	KE7-9150
Mo	Bailey Meter Co.	7335 Broadway, Kansas City	HI4-5800
NJ	Bailey Meter Co.	110 Halsted St. E Orange	OR4-6800
Ohio	Bailey Meter Co.	2330 Victory Pkwy. Cincinnati	AV1-0301
Pa	Bailey Meter Co.	29 Bala Ave. Bala-Cynwyd	MO4-3282
Pa	Bailey Meter Co.	875 Greentree Rd. Pittsburgh	WA1-6356
Tex	Bailey Meter Co.	2480 Times Blvd. Houston	JA6-1628

BAILEY METER CO. LTD. .... **5010 St. Catherine St. W, Montreal, Que, Can**

Can	Bailey Meter Co. Limited	3333 Cavendish Blvd. Montreal, Que	HU9-8228
Can	Bailey Meter Co. Limited	Box 1507, Halifax, NS	HA3-8964
Can	Bailey Meter Co. Limited	346-23rd Ave. SW, Calgary, Alb	AM9-2963
Can	Bailey Meter Co. Limited	1645 W 5th Ave. Vancouver 9, B.C.	RE1-3709
Can	Bailey Meter Co. Limited	170 Donway W, Don Mills, Ont	HI4-8488
Can	Bailey Meter Co. Limited	2117 Carling Ave. Ottawa, Ont	PA2-1373
Can	Bailey Meter Co. Limited	177 Lombard Ave. Winnipeg 2, Man	WH3-1481

BAILEY METERS & CONTROLS LTD. Purley Way, Croydon, Surrey, Eng **CR4191**

BAIRD-ATOMIC, INC ..... **33 University Rd. Cambridge 38, Mass** **UN6-7470**

Cal	Baird-Atomic, Inc.	2312 W Redondo Beach Blvd. Gardena	FA1-4466
Cal	Baird-Atomic, Inc.	1485 Bayshore Blvd. San Francisco	DE4-0515
Ga	Baird-Atomic, Inc.	3127 Maple Dr. NE, Atlanta 5	CE3-8295
Ill	Baird-Atomic, Inc.	540 N Lake Shore Dr. Chicago 11	MI2-6755
Md	Baird-Atomic, Inc.	9403 Fresno Rd. Bethesda	OL6-1200
Mich	Baird-Atomic, Inc.	30129 Minton, Livonia	GA1-7169
NY	Baird-Atomic, Inc.	811 W Merrick Rd. Valley Stream	CU5-5400
Ohio	Baird-Atomic, Inc.	2708 Northglen Rd. Westlake	TR1-2717
Pa	Baird-Atomic, Inc.	413 Johnson St. Jenkintown	WA7-4676
Tex	Baird-Atomic, Inc.	5635 Yale Blvd. Dallas 6	EM1-6081
Can	Baird-Atomic, Inc.	466 Gilmour St. Ottawa, Ont	CE2-9810

BAKER & ADAMSON PRODS., GENERAL CHEM. DIV. ALLIED CHEMICAL CORP. .... **40 Rector St. New York 6, NY**

BAKER CHEMICAL CO., J.T. .. **Phillipsburg, NJ** **GL4-2151**

Cal	J.T. Baker Chemical Co.	232 N Lake Ave. Pasadena 5	MU1-9613
Ill	J.T. Baker Chemical Co.	435 N Michigan Ave. Chicago 11	SU7-9490
NY	J.T. Baker Chemical Co.	122 E 42 St. New York 17	OX7-1640

BALDWIN INDUSTRIAL CONTROLS Dartford, Kent, Eng **DA26411**

NY	Atomic Accessories Inc.	811 W Merrick Rd. Valley Stream	CU5-9300

BALDWIN-LIMA-HAMILTON CORP. Dept. N B Philadelphia 42, Pa **SA6-9300**

Cal	Baldwin-Lima-Hamilton Corp.	1062 W 6th St. Los Angeles 17	HU2-8442
Cal	Baldwin-Lima-Hamilton Corp.	2929 19th St. San Francisco	MI7-6781
DC	Baldwin-Lima-Hamilton Corp.	1000 Conn Ave. Washington 6	EX3-3858
Ill	Baldwin-Lima-Hamilton Corp.	627 Railway Exchange Bldg. Chicago 4	HA7-3750
Mo	Baldwin-Lima-Hamilton Corp.	1221 Locust St. St. Louis 3	CH1-6315
NY	Baldwin-Lima-Hamilton Corp.	509 State St. Schenectady	EX3-1375
NY	Baldwin-Lima-Hamilton Corp.	111 5th Ave. New York 3	OR7-5030
Pa	Baldwin-Lima-Hamilton Corp.	1098 Union Trust Bldg. Pittsburgh 19	AT1-4896

BALDWIN-LIMA-HAMILTON CORP. 42 4th Ave. Waltham 54, Mass **TW4-6700**

Sales Representatives in Principal Cities

BALL BROTHERS RESEARCH CORP. Boulder Industrial Pk. Boulder, Colo

BALLOU & CO., INC., B.A. .... **61 Peck St. Providence, RI**

BARBER-COLMAN CO. WHEELCO INSTRUMENTS DIV. 1300 Rock St. Rockford, Ill

BARCO MFG. CO. ..... **500 N Hough St. Barrington, Ill** **DU1-1700**

BARIUM & CHEMICALS, INC. .... **4643 Erie St. Willoughby, Ohio** **WH2-5151**

BARNES CO. W. F. & JOHN .... **301 S Water St. Rockford, Ill** **WO4-5631**

Md	W. J. Taylor	133 Greenridge Rd. Lutherville	VA5-7732

BARNES DEVELOPMENT CO. .. **213 W Baltimore Pike, Lansdowne, Pa** **MA6-3294**

Ala	Specialized Electronic Corp.	529 N 18th St. Birmingham	FA4-1615
Cal	W. K. Geist Co.	8177 Glendale Blvd. Los Angeles	NO6-8910
DC	A. H. Baxter Co.	412 Albee Bldg. Washington	NE7-2121
Fla	Specialized Electronic Corp.	711 Magnolia Ave. Orlando	GA4-0433
Ill	R. J. Kennedy Co.	6713 N Oliphant Ave. Chicago	NE1-8283
Mass	M. S. Coldwell Co.	41 Lancaster Rd. Needham	JA2-5832
Mich	R. J. Kennedy Co.	6713 N Oliphant Ave. Chicago	NE1-8283
NJ	K. E. Hughes Co.	4808 Bergenline Ave. Union City	UN7-3204
NY	K. E. Hughes Co.	4808 Bergenline Ave. Union City, NJ	UN7-3204
Pa	Beebe & Aikman	237 Lancaster Ave. Devon	MU8-5173

BARNES & REINECKE, INC. ... **220 E Ohio St. Chicago 11, Ill** **DE7-6350**

DC	Barnes & Reinecke, Inc.	15th & H St. Washington 5	DI7-5196
Mich	Barnes & Reinecke, Inc.	127 Townsend, Midland	TE5-7726
NM	Barnes & Reinecke, Inc.	6340 Linn Ave. NE, Albuquerque	AL6-9886

BARNSTEAD STILL & STERILIZER CO. ..... **84 Lenoxville Terr. Boston 31, Mass** **JA2-8490**

Cal	Barnstead Still & Sterilizer Co.	San Francisco	TE2-5391
Cal	Barnstead Still & Sterilizer Co.	Los Angeles	KY1-6663
DC	Barnstead Still & Sterilizer Co.	Washington	DI7-1142
Ill	Barnstead Still & Sterilizer Co.	Chicago	RO1-6173
Mich	Barnstead Still & Sterilizer Co.	Detroit	EN7422
NY	Barnstead Still & Sterilizer Co.	New York City	KI8-1557
Ohio	Barnstead Still & Sterilizer Co.	Cleveland	AC6-6822
Pa	Barnstead Still & Sterilizer Co.	Philadelphia	LO8-1790

BAR-RAY PRODUCTS, INC. .. **209 25th St. Brooklyn 32, NY**

Cal	American Medical Sales	3445 W 1st St. Los Angeles	
Ill	H. Thuresson Co.	8143 N Lawndale Ave. Skokie	

BARRY CONTROLS INC. ..... **700 Pleasant St. Watertown 72, Mass** **WA3-1150**

Cal	Barry Western	1400 Flower St. Glendale	CH5-6653
Ill	The Barrymount Corp.	7029 W Grand Ave. Chicago	NA2-5250
Mass	Schaal Associates, Inc.	11 Muzzey St. Lexington	VO2-3578
NY	E. R. A. Inc.	340 Great Neck Rd. Great Neck	HU2-9320
Pa	K. Randall Co.	121 N Broad St. Philadelphia	

BART LABS. & DESIGN INC. ... **125 Manchester Pl. Newark 4, NJ** **PL9-0200**

BART MFG. CORP. ..... **135 Manchester Pl. Newark 4, NJ** **PL9-0200**

BARTON INSTRUMENT CORP. 580 Monterey Pass Rd. Monterey Park, Cal **CU3-6501**

Cal	Barton Sales Co.	350 S Atlantic Blvd. Monterey Park	AT9-3549
Cal	Belilove Co.	420 Market St. San Francisco 11	YU2-3713

Ill	Instrument Associates	7949 S Exchange Ave. Chicago 17	EE5-2702
La	Oil & Gas Specialties Co.	2612 4th St. Houston 24	UN1-6116
Md	G. Goodman Co.	103 E 25 St. Baltimore 18	BE3-5570
Mass	Carr Brothers Co.	258 Park Square Bldg. Boston 16	LI2-1326
Mo	E. B. Miller Co.	10117 Manchester Rd. St. Louis	YO6-8250
NY	Blake Equipment Corp.	409 Grand Ave. Englewood, NJ	LO4-4815
Okla	Snyder Co. Inc.	1432 E 6th St. Tulsa 20	GI7-0126
Ore	Fryer & Co. Inc.	2035 SW 58 Ave. Portland 1	CA6-3733
Pa	M. S. Jacobs & Assoc.	810 Noblestown Rd. Pittsburgh 5	WA1-6140
Tenn	Engineered Instrument Sales	2717 Union Ave. Memphis 12	FA3-1275

BASIC, INC. — **845 Hanna Bldg. Cleveland 14, Ohio** — **CH1-5000**

Cal	Basic, Inc.	727 W 7th St. Los Angeles 17	MA2-3827
Ind	Basic, Inc.	6340 Indianapolis Blvd. Hammond	WE3-6440
Mo	Basic, Inc.	101 S Meramec, Clayton 5	PA5-2947
Pa	Basic, Inc.	535 Gateway Center Bldg. # 1, Pittsbgh 22	CO1-5159
Pa	Basic, Inc.	105 Town Center Rd. King of Prussia	BR5-1400

BATCHELLER, INC. WILLIS T. — **704 3rd Ave. Seattle 4, Wash** — **MA4-2935**

BATTELLE-INSTITUT e. V. — **Wiesbadener Str. Frankfurt-Main, Ger**

BAUSCH & LOMB, INC. — **85040 Bausch St. Rochester 2, NY** — **LO2-3000**

Cal	Bausch & Lomb, Inc.	20 Jones St. San Francisco 2	UN3-1580
Cal	Bausch & Lomb, Inc.	314 W 6th St. Los Angeles 14	MA3-1401
DC	Bausch & Lomb, Inc.	1324 Eye St. Washington 5	RE7-1818
Ga	Bausch & Lomb, Inc.	78 Marietta St. NW, Atlanta	JA5-0791
Ill	Bausch & Lomb, Inc.	740 W Washington Blvd. Chicago 6	ST2-9232
Mass	Bausch & Lomb, Inc.	110 Tremont St. Boston	HU2-3520
Mich	Bausch & Lomb, Inc.	20200 W Outer Dr. Dearborn	LO1-8860
Mo	Bausch & Lomb, Inc.	2031 Olive St. St. Louis 66	CE1-1460
NY	Bausch & Lomb, Inc.	730 5th Ave. New York 19	CI7-5400
Pa	Bausch & Lomb, Inc.	1814 Chestnut St. Philadelphia 3	LO3-0821

BEACH-RUSS CO. — **420 Lexington Ave. New York 17, NY** — **OR9-7636**

Cal	J. W. Leser Co.	4408 W Jefferson Blvd. Los Angeles	RE1-4173
Cal	W. H. Edis & Associates	1485 Bayshore Blvd. San Francisco 24	JU4-7748
Ill	P. Jaeger Co.	1749 George Ct. Glenview	PA4-6170
Mass	Hayes Pump & Machinery Co.	100 Vine St. Somerville 43	MO6-3860
Minn	T. O. Berreau Co.	2204 E 25th St. Minneapolis	FA2-6181
Mo	W. L. Peters Machinery Co.	3863 W Pine Blvd. St. Louis 8	JE5-3700
NY	L. McLeod	126-140 Van Guysling Ave. Schenectady	FR4-3101
Ohio	P. M. Kline & Associates	2036 E 22nd St. Cleveland 15	CH1-1171
Ohio	B. W. Rogers Co.	380 Water St. Akron 9	PO2-0251
Pa	Hull Corp.	Hatboro	OS5-5000
Pa	J. Guy Griffith Co.	1251 Union Trust Bldg. Pittsburgh 19	AT1-3854
Can	G. F. Sceley & Son, Ltd.	82 Bathurst St. Toronto 2B, Ont.	EM8-4519

BEAN, JOHN DIV. FMC — **1303 S Cedar St. Lansing, Mich** — **IV4-9471**

Cal	J. Bean, Western Div. FMC	San Jose

BEAN & CO., MORRIS — **Yellow Springs 15, Ohio**

BECHTEL CORP. — **220 Bush St. San Francisco 4, Cal** — **DO2-4032**

Cal	Bechtel Corp.	612 S Flower St. L A 17	MA6-6721
NY	Bechtel Corp.	485 Lexington Ave. NY 17	MU7-7100
Tex	Bechtel Corp.	1300 Main St. Houston 2	CA4-2547
Can	Canadian Bechtel Ltd.	25 King St. W, Toronto 1, Ont.	EM2-3261
Eng	Bechtel International, Ltd.	New Bond St. London, W 1	HY9202
Fr	Bechtel International Co.	27 Ave. Pierre I, de Serbie, Paris 8	EL4841

BECK & ASSOC., R.W. — **1500 Tower Bldg. Seattle 1, Wash**

BECKMAN INSTRUMENTS, INC. SCIENTIFIC & PROCESS INSTRUMENTS DIV. — **2500 Fullerton Rd. Fullerton, Cal** — **TR1-4848**

Cal	Beckman Instruments, Inc.	2200 Wright Ave. Richmond	LA6-7730
DC	Beckman Instruments, Inc.	7924 Wisc Ave. Bethesda 14, Md	OL5-1644
Ga	Beckman Instruments, Inc.	3240 Peachtree Rd. NE, Atlanta 5	CE7-7042
Ill	Beckman Instruments, Inc.	7360 N Lincoln Ave. Lincolnwood	JU3-1020
NY	Beckman Instruments, Inc.	3053 Main St. Buffalo 14	UN8531
NY	Beckman Instruments, Inc.	US Hwy. 22 - Summit Rd. Mountainside, NJ	AD2-7600
Ohio	Beckman Instruments, Inc.	1717 Section Rd. Cincinnati	RE1-5111
Ohio	Beckman Instruments, Inc.	8905 Lake Ave. Cleveland 2	OL1-5424
Pa	Beckman Instruments, Inc.	426 Cottman St. Jenkintown	TU4-0454
Tex	Beckman Instruments, Inc.	2710 Danville St. Houston 6	JA6-1221
Wash	Beckman Instruments, Inc.	Box 473, Bellevue	GL4-0794

BECKMAN INSTRUMENTS INC. SYSTEMS DIV. 325 N Muller Ave. Anaheim, Cal — **PR4-5430**

Cal	Beckman Instruments Inc.	1117 California Ave. Palo Alto	DA6-5415
Ill	Beckman Instruments Inc.	7360 N Lincoln Ave. Lincolnwood	JU3-1020
Md	Beckman Instruments Inc.	7924A Wisconsin Ave. Bethesda	OL5-1644
NJ	Beckman Instruments Inc.	US Hwy 22 @ Summit Rd. Mountainside	AD2-7600

BECKMAN & WHITLEY, INC. — **993 E San Carlos Ave. San Carlos, Cal** — **LY1-8241**

BECK'S INC. — **298-300 E 5th St. St. Paul 1, Minn.** — **CA4-6465**

BELCO IND. EQUIP. DIV. BOGUE ELEC. MFG. CORP. 100 Pennsylvania Ave. Paterson, NJ — **LA5-2200**

Cal	A. T. Ambrosini	420 Market St. San Francisco 11	EX2-4844
Colo	Western States Equip Sales Co.	142 Broadway, Denver 3	PE3-4847
Ohio	H. W. Fink & Co.	7886 Montgomery Rd. Cincinnati 36	TW1-5583
Tex	J. R. Rhinehart	9309 Saddle Ln. Houston 24	OX7-7571
Wash	H. D. Fowler Co. Inc.	9th Ave. S & Lane St. Seattle 14	MA2-6800

BELFAB CORP. — **Daytona Beach, Fla** — **CL3-0628**

Mass	The Belfab Corp.	11 Ramah Circle, Agawam	RE9-4709

BELGONUCLEAIRE (SOC. BELGE POUR l'INDUSTRIE NUCLEAIRE) 35 rue des Colonies, Bruxelles 1, Belg — **02 1231 50**

Ital	Studio Applicazioni Nucleari	12 Piazza della Repubblica, Milan	63.71.57

BELL TELEPHONE MFG CO. NUC ENERGY DIV Berkenrodelei 75, Antwerp, Belg — **37.78.35**

Aust	Standard Tele u. Tele A. G.	Czeija, Nissl & Co - Vienna
Den	Standard Elek Aktieselskab	Copenhagen
Eng	Standard Tel. & Cables Ltd.	Aldwych 63, London W.C2
Fr	Lab Central de Telecommun.	46 ave de Breteuil-Paris 7
Ger	Standard Elektrik A. G.	Stuttgart-Zuffenhausen
Ital	F.A.C.E. Standard	Casella Postale 3598, Milan
Neth	N.S.E.M.	260-262 Scheldestra 5 Gravenhage
Nor	Standard Telefon og Kabelfabrik	OSLO
Port	Standard Electrica S.A.R.L.	Lisboa
Spn	Standard Electrica S.A.R.L.	Madrid
Swed	Standard Radio & Tele AB	Stockholm
Swit	Standard Tele & Radio S.A.	Zurich

BELMONT SMELTING & REFINING WORKS, INC. — **322 Belmont Ave. Brooklyn 7, NY** — **DI2-4900**

BELOCK INSTRUMENT CORP. — **112-03 14th Ave. College Point 56, NY** — **HI5-4200**

Ala	Astro-Space Laboratories	Huntsville	JE9-3451
DC	Belock Instrument Corp.	1200-18th St. Washington 6	EX3-7330

BENDIX CORP. — **1128 Fisher Bldg. Detroit 2, Mich** — **TR5-5800**

BENDIX CORP. BENDIX COMPUTER DIV. 5630 Arbor Vitae St. Los Angeles 45, Cal — **OR8-3640**

Ariz	D. W. Patterson	Box 4333, University Sta. Tucson	MA3-0106
Cal	H. V. Doyle	1330 Broadway, Oakland 12	GL2-3664
Colo	E. E. Hatter	655 Broadway, Denver 3	
DC	C. W. Armstrong	1000 Conn Ave. NW, Washington 6	ST3-0311
Ill	R. C. Whiting	919 N Michigan Ave. Chicago 11	MI2-5697
Mass	R. M. Walls	607 Boylston St. Boston 16	CA7-0450
Mich	S. Avery, Jr.	12950 W 8 Mile Rd. Detroit 37	JO6-8789
Mo	H. D. Lorch	3430 Broadway, Kansas City 11	VA1-8681
NY	R. P. Fopeano	205 E 42nd St. New York 17	OR9-6990
Ohio	P. P. Buchynsky	55 Public Square, Cleveland 13	CH1-7788
Tex	R. F. Walz	1511 Bryan St. Dallas 1	RI7-8805
Can	Computing Devices of Canada	Box 508, Ottawa 4, Ont	TA8-2711

BENDIX CORP. CINCINNATI DIV. 3130 Wasson Rd, Cincnti 8, Ohio — **EL1-2323**

BENDIX CORP. FRIEZ INSTRUMENT DIV. 1454 Taylor Ave. Baltimore 4, Md

Cal	Bendix-West Coast Div.	117 Providencia Ave. Burbank

BENDIX CORP. SEMICONDUCTOR PRODS. Holmdel, NJ — **SH7-5400**

Cal	W. Cordon	117 E Providencia Ave. Los Angeles	VI9-3961
Ill	C. W. Jackson	2N566 York Rd. Elmhurst	BR9-5850
Md	B. D. Gentry	338 Stanmore Rd. Baltimore	VA5-1277
Mass	D. Snell	4 Lloyd Rd. Tewksbury	UL1-7496

BENDIX FILTER DIV. — **434 W 12 Mile Rd. Madison Hgts, Mich** — **JO6-2380**

BENDIX-PACIFIC DIV. BENDIX CORP. 11600 Sherman Way, N Hollywood, Cal

BENDIX PRODUCTS DIV. — **401 Bendix Dr. South Bend, Ind** — **CE3-4141**

BENDIX RADIO DIV. — **E Joppa Rd. Baltimore 4, Md** — **VA3-2200**

BENDIX RESEARCH LAB. — **Southfield, Mich** — **KE7-3300**

BENDIX SYSTEMS DIV. — **Ann Arbor, Mich** — **HO5-7766**

BENTLY SCIENTIFIC CO — **2811 7th St. Berkeley 10, Cal** — **TH5-6551**

Cal	Fieldtec	Box 325, Tustin	LI4-5615
Cal	Fieldtec	2811 - 7th St. Berkeley 10	TH5-6551

BERGEN PIPESUPPORT CORP. — **50 Church St. New York, NY** — **WO4-6880**

Cal	Bergen Pipesupport Corp.	530 W 6th St. Los Angeles 14	MA6-3646
Colo	L. A. Christopher Co.	Box 67, Capitol Hill Sta. Denver 6	KE4-1338
Fla	Pan American Western Co. Inc.	2103 Le Jeune Rd.	HI6-0158
Ga	E. L. Shuff & Assoc. Inc.	Box 12017, Atlanta 5	CE7-9218
Ill	Bergen Pipesupport Corp.	1 N La Salle St. Chicago 2	FR2-3118
La	A. J. Harris Co.	400 Balter Bldg. New Orleans 12	TU0126
Mass	W. B. Parsons Co.	Box 277, Needham 92	HI4-4870
NC	Brown & Morrison	Box 4297, Charlotte 4	ED8-0774
Pa	Bergen Pipesupport Corp.	239 4th Ave. Pittsburgh 22	CO1-3512
Tex	Alliger & Sears Company	Box 2217, Houston 1	CA4-6923
Wash	J. H. Marvin Co. Inc.	422 1st Ave. W, Seattle 99	AT4-0331

BERK & CO. LTD., F.W. COATINGS DIV. — **Brent Cres, N Circular Rd. London NW10, England** — **EL3533**

Eng	F. W. Berk & Co. Ltd.	Trafford Park Rd. Manchester 17	TR1238
Scot	F. W. Berk & Co. Ltd.	Kelvin Ave. Hillington Est. Glasgow SW 3	HA5746

BERKELEY DIV. BECKMAN INSTRUMENTS, INC. 2200 Wright Ave. Richmond, Cal — **LA6-7730**

Cal	V. T. Rupp Co.	307 Parkman Ave. Los Angeles 26	DU7-8224
Ga	Murphy & Cota	2110 Peachtree Rd. NW, Atlanta 9	TR6-3020

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Ill	Ridgway Associates	6100 W North Ave. Chicago 39	TU9-5715
Mass	Broger Instrument Sales Co.	48 Pearl St. Brookline 47	BE2-4804
NJ	Gawler-Knoop Co.	178 Eagle Rock Ave. Roseland	CA6-4545
NY	SBM Associates, Inc.	969 Clinton Ave. S, Rochester 20	GR3-6506
Wash	R. S. Drake Associates	1817 Norman St. Seattle 44	EA3-8545
	BERNARD-FRANKLIN CO., INC	**4155 E Hedley St. Phila 37, Pa**	**JE3-4500**
	BERYL ORES CO.	**Box 105, Rt. 1, Arvada, Colo**	
	BERYLLIUM CORP.	**Box 1462, Reading, Pa**	
Cal	E. J. Brookes Co. Inc.	571 Howard St. San Francisco 5	TU6-2974
Cal	E. J. Brookes Co. Inc.	6801 Telegraph Rd. Los Angeles 22	RA3-8431
Ky	Williams & Co. Inc.	1109 S Preston St. Louisville 3	JU3-7781
Minn	Eller Equipment Co.	1107-09 S 2nd St. Minneapolis 15	FE9-9226
NJ	NY Brass & Copper Co.	56 US Hwy. 22, Hillside	WA6-5300
NY	NY Brass & Copper Co.	72 5th Ave. New York 11	GR7-5400
NY	Ontario Metal Supply, Inc.	691 Exchange St. Rochester 8	HA6-1630
Pa	Williams & Co. Inc.	901 Penna Ave. Pittsburgh 33	CE1-9600
Pa	Brass & Copper Sales, Inc.	4250 MacAlester Ave. Philadelphia 24	GL7-2500
Wash	J. J. Backer Co.	221 W Galer St. Seattle 99	AT3-6470
Can	Peckover's, Ltd.	115 McCormack St. Toronto 9, Ont	RO2-8272
Can	Peckover's, Limited	2052 St. Catherine St. W, Montreal	WE3-6717
	BETHLEHEM STEEL CORP.	**701 E 3rd St. Bethlehem, Pa**	**UM7-2424**
Cal	Bethlehem Steel Corp.	100 California St. San Francisco 19	YU1-2121
Cal	Bethlehem Steel Corp.	6000 S Boyle Ave. Los Angeles 54	LU3-3041
Ga	Bethlehem Steel Corp.	55 Marietta St. Atlanta 1	JA2-4918
Ill	Bethlehem Steel Corp.	2700 Prudential Bldg. Chicago 1	MO4-5422
Md	Bethlehem Steel Corp.	300 St. Paul Pl. Baltimore 3	MU5-5700
Mass	Bethlehem Steel Corp.	75 Federal St. Boston 10	LI2-5740
Mo	Bethlehem Steel Corp	S Central & Bonhomme Ave. St. Louis 5	PA6-4500
NY	Bethlehem Steel Corp.	375 Park Ave. New York 22	MU8-5522
Pa	Bethlehem Steel Corp.	1617 Pennsylvania Blvd. Philadelphia 3	LO3-1100
Pa	Bethlehem Steel Corp.	1200 Oliver Bldg. Pittsburgh 22	GR1-5900
Tex	Bethlehem Steel Corp.	7100 Clinton Dr. Houston 1	OR2-7411
Wash	Bethlehem Steel Corp.	3651 E Marginal Way, Seattle 24	WE5-1100
	BETTIS CORP.	**P O Drawer 9365, Houston 11, Tex**	**WA8-5401**
Cal	Blair-Martin Co. Inc.	905 Mission St. South Pasadena	MU2-2861
Colo	E. N. Murray Co.	1531 Denver Club Bldg. Denver 2	AL5-0533
Ill	Hawkins Eng. Sales Corp.	6517 N Central Ave. Chicago 30	SP4-2244
La	Production Systems, Inc.	Box 431, Harvey	FO1-3556
Mich	DuBois-Webb Co.	19951 James Couzens Hwy. Detroit 35	BR3-0880
NJ	Fluid Controls Co. Inc.	646 Anderson Ave. Cliffside Park	WH3-1793
NY	J. Meyer Co.	1072 Colvin Ave. Buffalo 23	DE5444
Okla	Myers-Aubrey Co.	1624 S Harvard, Tulsa 16	WE2-3234
Pa	Delaware Valley Eng. Co.	Forrest & Hector, Conshohocken	TA8-9795
Tex	B-K Engineering Co.	3915 Werndon Dr. Dallas 20	FL7-6926
Wash	Barrett Eqpt. Co.	624 Alaska St. Seattle 8	MA2-5805
Can	R. Muddiman Co.	739 Mountain St. Montreal	UN6-6808
	BEVA LABORATORY, INC.	**185 4th Ave. Trenton 8, NJ**	**TU2-6847**
	BIDDLE CO. JAMES G.	**1316 Arch St. Philadelphia 7, Pa**	**LO4-1620**
Cal	J. G. Biddle Co.	12092 Foster Rd. Los Alamitos	GE0-1923
Fla	A. Fyler Agency	4210 Laguna St. Coral Gables	HI3-7042
Ga	O. V. Scott, Jr. & Assoc.	305 Techwood Dr. NW, Atlanta 13	JA3-0927
Mass	Cowperthwait & Brodhead	570 Hillside Ave. Needham Hts. 94	HI4-9410
Mich	The Satullo Co.	4514 N Woodward Ave. Royal Oak	LI9-3910
Minn	Pinkney & Hine	1925 Nicollet Ave. Minneapolis 3	LI0623
Mo	The C. B. Fall Co.	317 N 11th St. St. Louis 1	CH1-2433
NY	J. G. Biddle Co.	15 Alden St. Cranford, NJ	BR6-8833
NC	Ranson, Wallace & Co.	116 E 4th St. Charlotte 2	ED4-4244
Ohio	J. G. Biddle Co.	25810 Tungsten Rd. Cleveland 32	AN1-2822
Tex	E. Lipscomb & Assoc.	Box 7084, Dallas	FL7-1881
Wash	Instrument Lab. Inc.	934 Elliott Ave. W, Seattle 99	AT3-5850
	BIGGS CO., CARL H.	**1547 14th St. Santa Monica, Cal**	
	BINGHAM PUMP CO.	**2800 NW Front Ave. Portland 10, Ore**	**CA2-9571**
Cal	Bingham Pump Co.	662 Russ Bldg. San Francisco 4	SU1-3612
Cal	Bingham Pump Co.	1709 W 8th St. Los Angeles 17	HU3-1528
Colo	Bingham Pump Co.	628-9 Symes Bldg. Denver 2	TA5-4565
Ill	Bingham Pump Co.	407 S Dearborn St. Chicago	WE9-4591
Mass	Bingham Pump Co.	201 Devonshire St. Boston 10	HA6-0300
Mo	Power Machinery Co.	6305 Brookside Plaza, Kansas City 13	EM3-1193
NY	Bingham Pump Co.	420 Lexington Ave. New York City	LE2-8104
NC	T. C. Heyward & Co.	518 E Morehead St. Charlotte	FR7-2678
Okla	Power Machinery Co.	3900 S Memorial, Tulsa 5	RI3-2535
Pa	J. M. Burke	1319 Terrace Dr. Pittsburgh 28	LE1-2145
BC	Bingham Pump Co. Ltd.	3550 E Broadway, Vancouver	CY8-6454
Can	Bingham Pump Co. Ltd.	696 Yonge St. Toronto	WA4-7429
	BIOCHEMICAL PROCEDURES NUCLEAR ASSAY DIVISION	**12020 Chandler Blvd. N Hollywood, Cal**	**PO6-3926**
	BIO-NUCLEAR LABS. INC.	**1503 Guadalupe St. Austin 1, Tex**	**GR8-2724**
	BIO-RAD LABORATORIES	**1257 S 32nd St. Richmond, Cal**	**BE4-4130**
	BIOS LABORATORIES INC.	**17 W 60th St. New York 23, NY**	**PL7-8171**

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	BIOTRONICS LABS., INC.	**Box 744, Sta. "B", Montreal 2, PQ, Can**	**WE4-1625**
BWI	Jamaica Import & Export Co.	22/28 Orange St. Kingston, Jamaica	
Can	J. Ney	655 Brial Hill Ave. Toronto	RU3-6307
	BIRD ELECTRONIC CORP.	**1800 E 38th St. Cleveland 14, Ohio**	
	BIRKETT, BILLINGTON & NEWTON LTD., T.M.	**Etruria Rd. Hanley, Stoke-on-Trent, Staffs, Eng**	
	BISHOP & CO., J.	**Platinum Works, Malvern, Pa**	
Ill	J. Bishop & Co.	116 S Michigan Ave. Chicago	AN3-4365
	BJORKSTEN RESEARCH LABS.	**Box 265, Madison 1, Wis**	**AL6-5581**
DC	H. P. Green	1700 K St. NW, Washington	ST3-6510
Ohio	M. Gams	1018 Knott Bldg. Dayton 2	BA4-4761
Tex	Bjorksten Texas Research Lab.	2405 Norfolk St. Houston	JA6-3649
	BLACK SIVALLS & BRYSON INC.	**7580 E 12 St. Kansas City 26, Mo**	**BE1-7200**
Cal	Black, Sivalls & Bryson, Inc.	759 N Highland Ave. Los Angeles	WE1-1755
Cal	Black, Sivalls & Bryson, Inc.	1485 Bay Shore Blvd. San Francisco	DE3-6833
Colo	Black, Sivalls & Bryson, Inc.	1755 Glenarm Pl. Denver	AC2-2525
Ill	Black, Sivalls & Bryson, Inc.	221 N LaSalle St. Chicago	DE2-6355
La	Black, Sivalls & Bryson, Inc.	307 Civic Center Bldg. New Orleans	TU0347
NY	Black, Sivalls & Bryson, Inc.	920 Niagara Falls Blvd. Buffalo	PA8830
NY	Black, Sivalls & Bryson, Inc.	48 W 48th St. New York	CO5-0004
Ohio	Black, Sivalls & Bryson, Inc.	Box 74, Greenhills Sta. Cincinnati	
Okla	Black, Sivalls & Bryson, Inc.	302 N Cincinnati, Tulsa	GI7-8441
Pa	Black, Sivalls & Bryson, Inc.	123 W Lancaster Ave. Wayne	MU8-3920
Tex	Black, Sivalls & Bryson, Inc.	1405 Texaco Bldg. Dallas	RI2-6633
	BLACK & VEATCH CONSULTING ENGINEERS	**1500 Meadow Lake Pkwy. Kansas City 14, Mo**	**EM3-1402**
	BLAW-KNOX CO.	**300 6th Ave. N.B. Pittsburgh 22, Pa**	**EX1-1244**
	BLEIWERK GOSLAR GmbH	**Goslar, Germany**	
	BLICKMAN, INC., S.	**7900 Gregory Ave. Weehawken, NJ**	**UN3-0800**
	BLISS CO. E. W.	**1375 Raff Rd. SW, Canton, Ohio**	**GR7-3421**
	BLONDER-TONGUE LABS. INC.	**9 Alling St. Dept. HU, Newark 2, NJ**	**MA2-8151**
	BLUE STAR KNITTING, INC.	**1430 ON Farwell Ave. Milwaukee 2, Wis**	**BR6-1280**
	BODENDIECK TOOL CO.	**Rt. 48 N, Taylorville, Ill**	**VA4-3319**
	BODSON & FILS, STE. J.	**14 bis, Rue Denis Papin, Puteaux (Seine), Fr**	**LON09-37**
NY	Homestrand, Inc.	Larchmont	TE4-5550
Eng	P. W. Allen & Co.	253 Liverpool Rd. London N 1	NO4865
Ital	S. A. Mascherpa Emanuele	Via Pergolesi 20, Milan	221.221/22
	BOGEN-PRESTO CO. DIV. The SIEGLER CORP.	**Box 500, Paramus, NJ**	**DI3-5700**
Cal	E. L. Berman Co.	450 9th St. San Francisco	UN3-0317
Cal	Marshank Sales Co.	7422 Melrose Ave. Los Angeles 46	WE8-2591
Ga	Hollingsworth & Still	508 Whitehead Bldg. Atlanta 3	MU8-5878
Ill	W. H. Ellinger Sales Co.	6571 N Olmstead Ave. Chicago 31	RO3-4154
Mass	M. Scott Co.	336 Washington St. Wellesley Hills	CE5-0102
Mo	Forristal-Young Sales Co.	4053 Broadway, Kansas City	VA1-5330
NY	Be-Esco Sales Corp.	45 S Broadway, Yonkers	YO3-0150
Ohio	W. E. McFadden Co.	150 E Broad St. Columbus 15	CA1-3363
Tex	The Texport Co.	2147 Farrington Blvd. Dallas 7	RI8-6458
Utah	R. S. Stevenson	Box 17495, Salt Lake City	CR7-2515
Wash	Northwestern Agencies Inc.	4130 1st Ave. S, Seattle 4	MA3-8882
Can	J. R. Tilton Ltd.	51 McCormack St. Toronto 9	RO9-1129
	BOHNA & CO., INC., B.D.	**515 Market St. San Francisco 5, Cal**	**EX7-1295**
BC	B. D. Bohna & Co. Ltd.	875 W Broadway, Vancouver	TR9-4551
Can	Integrated Consultants Ltd.	6484 Sherbrooke St. W Montreal, Que	HU4-3558
	BOMAC LABS. INC.	**Salem Rd. Beverly, Mass**	**WA2-6000**
	BONNEY-FLOYD CO.	**611 Marion Rd. Columbus 7, Ohio**	**HI3-7453**
NY	H.E. Wilkinson	45 Rockefeller Plaza, New York 20	
Pa	D. Smith	427 W Sheridan Ave. Annville	
Pa	F.E. Parke	875 Greentree Rd. Pittsburgh 20	
	BONNEY FORGE & TOOL WORKS	**Cedar & Meadow Sts. Allentown, Pa**	**HE5-4781**
Cal	Duhig & Co.	5105 Telegraph Rd. Los Angeles	AN3-7161
Cal	Duhig & Co.	2802 10th St. Berkeley 2	TH3-1670
Ga	J. L. Walker	60 Lynn Valley Dr. SW, Atlanta 11	PL8-6537
Ill	E. C. Sawyer, Jr.	164 Pine Grove Ave. Bensenville	PO6-3941
NJ	R. S. Bader	63 Van Allen Rd. Glen Rock	MU2-2444
Ohio	G. A. Hart	15501 Glynn Rd. Cleveland 12	MU1-5535
Tex	A. L. DeCell	3036 E Potomac, Dallas 5	EM8-1076
Tex	W. M. Hudson	8420 Merlin Dr. Houston 24	WA1-0674
	BOOZ-ALLEN APPLIED RESEARCH, INC.	**1031 Waukegan Rd. Glenview, Ill**	**PA6-7400**
	BORDEN CHEMICAL CO.	**350 Madison Ave. New York 17, NY**	**MU7-4100**

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	BORG-WARNER CONTROLS DIV. BORG-WARNER CORP.	**3300 Newport Blvd. Santa Ana, Cal**	**KI5-5581**
Cal	Astroel Inc Div of J. K. Dooley Co Inc	755 Mercy St. Mt. View	YO8-6336
Colo	Williams & Associates, Inc.	2261 S Albion St, Denver 22	SK6-9403
Mass	Associated Electronics, Inc.	585 Pleasant St. Worcester 2	PL3-8187
NM	Williams & Associates, Inc.	3221 Silver SE, Albuquerque	AL5-9632
NY	M. L. Spitzer Co.	Box 2324, Buffalo 23	DE6163
NY	R. J. Marcy Associates	1776 Broadway (at 57th St) New York 19	CI5-3890
Pa	Lewis Slubin Co.	2306 Fairmont Ave. Philadelphia	CE6-2072
Tenn	M. H. Odeen	506 Cherry Rd. Memphis 17	JA7-0824
Utah	Williams & Associates	320 E 4th S. Salt Lake City	EM4-5844
Wash	J. K. Dooley Co.	3215 Western Ave. Seattle 1	AT4-8313
	BORG-WARNER MECHANICAL SEALS Box 2017, Torr. Annex, LA54, Cal		**LU7-6171**
Cal	Borg-Warner	2 Pine St. San Francisco 11	SU1-5812
Ga	Borg-Warner	3131 Piedmont Rd, NE, Atlanta 5	
Ill	Borg-Warner	407 S Dearborn Ave. Chicago 5	HA7-2375
NY	Borg-Warner	580-5th Ave. New York 36	PL7-0400
Ohio	Borg-Warner	13000 Throckit Rd. Cleveland 11	SU1-5287
Okla	Borg-Warner	822 E 6th St. Tulsa 20	LU7-6675
Pa	Borg-Warner	1828 Lewis Tower Bldg. Philadelphia 2	PE5-4712
Pa	Borg-Warner	3612-5th Ave. Pittsburg 13	
Tex	Borg-Warner	Box 5161, Beaumont	TW2-2295
Tex	Borg-Warner	Drawer 2198, Houston 1	WA6-8321
	BOUCHER & CO. LTD.	**Pike Mills, Green St. Kidderminster, Worcs. Eng**	
DC	Commercial Attache, British Embassy 3100 Massachusetts Ave. Wash		
	BOURNS, INC.	**Box 2112, Riverside, Cal**	**OV4-1700**
	BOVAY, JR., H. E.	**5009 Caroline St. Houston 4, Tex**	**JA9-4921**
La	H. E. Bovay, Jr.	6217 Government St. Baton Rouge 6	WA4-3661
Wash	H. E. Bovay, Jr.	933 W 3rd Ave. Spokane 4	TE8-4111
Wash	H. E. Bovay, Jr.	Box 818, Richland	2-1111
	BOWMAR INSTRUMENT CORP.	**8000 Bluffton Rd. Fort Wayne, Ind**	**SH3121**
Cal	S. O. Jewett Co.	13111 Ventura Blvd. N Hollywood	ST9-8103
Fla	G. Bohman	711 Magnolia Ave. Orlando	GA5-6860
Ill	Ridley Associates	1551 N Austin Blvd. Chicago 51	TU9-2940
Md	W. D. Jefferson	3715 Thornapple St. Chevy Chase	OL4-8064
Md	T. P. McMahon	30 Ridgefield Rd. Lutherville	VA5-4094
NJ	F. J. Hartley	Pattenburg	CL743
NY	Bowmar Instrument Corp.	40 Middle Neck Rd. Great Neck	HU2-1750
NY	R. G. Klein	167 Norton Village Ln, Rochester 9	HO7-3694
Ohio	Sheridan Associates	Roselawn Center Bldg. Cinc 37	ME1-2460
Tex	Southwest Electronic Industries	The Meadows Bldg. Dallas 6	EM3-1671
Can	Aeromotive Engineering Prods.	147 Hymus Blvd. Pte. Claire, Que	OX7-6810
	BRABY & CO. LTD., FREDERICK Smithfield St. London EC1, Eng		
	BRACKE-SEIB X-RAY CO., INC.	**16 Pelham Bay Park W, Pelham Manor, NY**	
	BRAD THOMPSON INDUSTRIES, INC. 7460 Girard Ave. La Jolla, Cal		**GL4-1185**
Ariz	Howe & Howe	Box 10497, Phoenix	AM5-9185
Cal	Hafstrom-Thompson Assoc., Inc.	16212 Ventura Blvd. Encino	ST8-0800
Cal	Cerruti & Associates	Box 509, Redwood City	EM9-3354
Colo	Electronic Comps. Sales, Inc.	2149 S Clermont St. Denver 22	SK7-1322
DC	Brimberg Associates	221 Investment Bldg. Washington 5	DE2-8000
Fla	W. Ben Wimberly Co.	532 S Ft. Harrison Ave. Clearwater	CL3-7072
Ill	Ridgway Associates	6100 W North Ave. Chicago 39	TU9-5715
Mass	Saunders & Co.	8 Prospect St. Waltham 54	TW4-6071
NY	Central Associates	44 N Dean St. Englewood	LO8-0808
Pa	L. C. Fuller, Jr.	32 Rittenhouse Pl. Ardmore	MI2-2468
Tex	Campion Sales Co.	9002 Chancellor Row, Dallas 35	FL7-4095
Wash	F. H. Haight Co.	3212 Eastlake Ave. Seattle 2	EA2-1818
	BRADY CO., W.H.	**727 W Glendale Ave. Milwaukee 12, Wis**	
Cal	J. E. Friedman	1246 Folsom St. San Francisco 3	HI1-8480
Cal	J. Metzler	923 E 3rd St, LA	MA6-2896
Conn	M. Kennedy	119 Ann St. Hartford	CH7-1283
Ga	W. M. Rapp	3224 Peachtree Rd, NE, Atlanta	CE3-0138
Ill	W. J. Tuite	6965 W Belmont Ave. Chicago	NA2-2731
Mass	C. M. Byron	375 Moody St. Waltham 54	TW3-8390
Mo	W. B. Curtin	519 Lee Ave. St. Louis 19	ST1-8290
NJ	J. I. Stone	449 Broad St. Newark 2	HU4-6330
NY	C. D. Schaeffer	639 S Warren St. Syracuse 2	HA2-1956
Ohio	S. F. Montague	1717 Section Rd. Cincinnati 37	MF1-8552
Pa	R. L. Klumpp	4401 Germantown Ave. Phila 40	GL7-0100
	BRAM METALLURGICAL-CHEMICAL CO.	**820 65th Ave. Philadelphia 26, Pa**	**WA4-2121**
Cal	Norman Sutcliffe	275 Brannan St. San Francisco 7	GA1-5317
Mo	J. C. Culver & Co.	4638 Nichols Pkwy. Kansas City 12	WT1-2323
	BRAND, WILLIAM-REX DIV. AM. EMKA CORP.	**31 Sudbury Rd. Concord, Mass**	**EM9-9630**
Cal	Collins Electronics Sales	535 Middlefield Rd. Palo Alto	DA6-0647
Cal	Mil-Spec Supply Co.	17468 Ventura Blvd. Encino	ST4-1206
Conn	R. H. Robinson	Box 157, S Coventry	PI2-7323
Fla	Repco Sales Co.	401 N W 71 St. Miami 38	PL7-2911
Mich	N. J. Clark	17136 E Warren Ave. Detroit 24	TU5-1723
Minn	Hamilton & Bayle Assoc. Inc.	3850 Republic Ave. Minneapolis 26	WE9-7891
NJ	J. A. Maguire & Co.	116 N 7th St. Camden 2	WO6-3118
NJ	Murray Sales Co.	604 Central Ave. E Orange	OR5-9038
NY	P. F. Smith	4 Morton Rd. Dewitt	GI6-2645

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Ohio	J. H. Clark	Box 708, Cleveland 22	PR1-2241
Utah	Denver Engineering Sales	Beason Bldg. Salt Lake City 11	EL9-1323
Wash	Associated Industries	1752 Rainier Ave. Seattle 44	EA5-6400
	BRANSON CORP.	**41 S Jefferson Rd. Whippany, NJ**	**TU7-1100**
Cal	W. E. Zimmerman Co.	407 N Maple Dr. Beverly Hills	BR2-1181
Kan	Inland Associates	6047 Howe Dr. Mission	EM2-2366
Mich	F. A Villani	7008 Rosemary, Dearborn	LO3-1256
Minn	Scott Electronic Sales Co.	6500 Xerxes Ave. S, Minneapolis	WA8-3919
NJ	Podeyn-Schmidt	207 Hackensack St. Woodridge	CE8-2760
NY	Savco Inc.	124 Kinne Rd. E Syracuse	GI6-4927
Pa	Arnold Associates	528 Ryers Ave. Cheltenham	PI2-0600
Tex	Alto Engineering Sales Co	2712 W. Mockingbird Ln. Dallas	FL1-0019
Can	Found Bros. Aviation Ltd.	Malton Airport, Malton, Toronto	BU5-2341
	BRANSON INSTRUMENTS, INC.	**37 Brown House Rd. Stamford, Conn**	**DA4-6721**
Cal	Branson Instruments, Inc.	13544 Ventura Blvd, Sherman Oaks	ST4-7090
Cal	Branson Instruments, Inc.	38813 Logan Dr. Freemont	JE8-8171
Conn	J. W. Shull	R.D. 2 Ridgebury Rd. Ridge field	
Ga	Mac Gregor, D. S.	3408 Autumn Dr. Doraville	GL7-0180
Ill	Branson Ultrasonic Corp.	5056 N Albany Ave. Chicago 25	IR8-1202
Mass	Tarnas, M. C.	98 Wheeler Park Ave. Bridgeport 4	EX4-0015
Mich	Basic Service Corp.	16544 Plymouth Rd. Detroit	VE7-8820
NJ	Branson Metropolitan Office	349 Franklin Ave. Nutley	NO7-7400
NY	The Reford Corp.	262 Saratoga Rd. Scotia	EX9-1124
Pa	R. L. Holliday Co.	3737 Poplar Ave. Pittsburgh	LO1-7620
Va	Graham, D.	6612 N 33rd St. Falls Church	JE4-4118
	BRAUN & CO., C.F.	**1000 S Fremont Ave. Alhambra, Cal**	**AT2-1131**
Cal	C. F. Braun & Co.	2412 Russ Bldg. San Francisco	TU2-5400
Ill	C. F. Braun & Co.	136 S La Salle St. Chicago 3	FR2-0332
NY	C. F. Braun & Co.	45 Rockefeller Plaza, NY 20	CI5-6389
Tex	C.F. Braun & Co.	2020 1st City Natl Bank Bldg. Houston 2	CA7-1165
Eng	C. F. Braun & Co. Ltd.	16 Berkley St. London, W1	MA7654
	BREEZE CORPS. INC.	**700 Liberty Ave. Union, NJ**	**MU6-4000**
Ariz	Fryco	355 N Scottsdale Rd. Scottsdale	WH5-3281
Cal	Components Corp.	35 N Arroyo Pkwy. Pasadena	MU1-7448
Cal	Long & Associates	505 Middlefield Rd. Redwood City	EM9-3324
Conn	E. C. Diffenderffer	Baldwin Hill Rd. RFDI, Litchfield	JO7-5398
DC	L. M. Smith	1850 Columbia Pk. Arlington, Va	JA7-9450
Fla	C. Small	Box 1346, Orlando	GA3-7342
Ga	C. O. Benedette	714 Paces Ferry Rd, Smyrna	HE5-8393
Kan	C. L. Kennedy	3121 Sennett, Wichita	MU6-7808
NJ	T. Ackley	230 S Cooper Park Dr. Collingswood	UL4-9066
NJ	B. A. Bundy	4 Elsman Ter. Maplewood	SO3-6963
Utah	R. W. Frederick	821 E 3100 N, Ogden	EX4-2053
Va	R. R. Kerns	2022 N Scott St. Arlington 9	JA5-0535
	BREUER ELECTRIC MFG. CO.	**5100 N Ravenswood Ave. Chicago 40, Ill**	
	BREW & CO., INC. RICHARD D	**90 Airport Rd. Concord, NH**	**CA5-4605**
Fla	W. Hemminger	624 NE 79th St. Miami	PL9-0300
Mass	Mosher & Peyser Co.	945 Great Plain Ave. Needham	HI4-1400
NM	R. E. MacLendon Co.	915 Yale Blvd. SE, Albuquerque	CH3-4581
NY	S. R. Morrow Co.	Box 336, Chatham, NJ	ME5-8549
NY	W. Richter Corp.	Box 158, Pittsford	LU6-6484
Pa	C. H. Newson & Associates	813 Bethlehem Pike, Philadelphia	CH8-3377
	BRIDGEPORT BRASS CO.	**30 Grand St. Bridgeport 2, Conn**	**ED4-1182**
Cal	Bridgeport Brass Co.	6500 E Flotilla St. Los Angeles	RA3-5101
Cal	Bridgeport Brass Co.	130 Potrero Ave. San Francisco	UN1-2551
Colo	Bridgeport Brass Co.	77 Lippan St. Denver	CH4-3308
Ill	Bridgeport Brass Co.	3453 W 47th Pl. Chicago 32	LA3-2230
Mass	Bridgeport Brass Co.	808 Memorial Dr. Cambridge	UN4-9371
Mich	Bridgeport Brass Co.	15827 James Couzens Hwy. Detroit	UN4-8532
Mo	Bridgeport Brass Co.	2135 Delmar Blvd. St. Louis 3	CE1-0078
NY	Bridgeport Brass Co.	48-49 33rd St. Long Island City	EX2-4290
Ohio	Bridgeport Brass Co.	1921 E 119th St. Cleveland	CE1-5180
Pa	Bridgeport Brass Co.	918 E Lycoming St. Philadelphia	JE5-3900
Tex	Bridgeport Brass Co.	3815 Richmond Ave. Houston	MO7-9118
Wash	Bridgeport Brass Co.	607 3rd Ave. Seattle	MA4-2860
	BRIGGS ASSOCIATES, INC.	**10 DeKalb St. Norristown, Pa**	**BR9-5400**
Cal	Pacific Scientific Co.	Box 22019, Los Angeles 22	SP3-2020
	BRISTOL CO.	**Box 1790 NBG, Waterbury 20, Conn**	**PL6-4451**
Ala	The Bristol Co.	1021 Comer Bldg. Birmingham 3	AL1-0034
Cal	The Bristol Co.	6300 E Acco St. Los Angeles 22	RA3-9751
Cal	The Bristol Co.	40 Berry St. San Francisco 7	GA1-5462
Colo	The Bristol Co.	4555 E 46th Ave. Denver 16	DE3-6223
Ill	The Bristol Co.	2040 N Hawthorne Ave. Melrose Park	MU1-1450
Mass	The Bristol Co.	Statler Bldg. Boston 16	HU2-1728
Mich	The Bristol Co.	10329 W McNichols Rd. Detroit 21	UN4-4284
Mo	The Bristol Co.	434 Cotton Belt Bldg. St. Louis 2	CH1-7892
NY	The Bristol Co.	250 W 57th St. New York 19	CI5-4883
Ohio	The Bristol Co.	8905 Lake Ave. Cleveland 2	AT1-6924
Pa	The Bristol Co.	Market St. Philadelphia 7	LO3-2386
Tex	The Bristol Co.	3617 W Alabama, Houston 27	MO7-6509
	BRISTOL SIDDELEY ENGINES, LTD.	**Mercury House, Knightsbridge, London SW 7, Eng**	
Eng	Bristol Siddeley Engines Ltd.	Box 17, Coventry	WA2211
	BRITISH ELECTRICAL REPAIRS LTD. 10 Charlotte St. Manchester 1, Eng		

BRITISH INSULATED CALLENDER'S CABLES, LTD. 21 Bloomsbury St. London, WC1, Eng MUT1650
Cal Curry Co. ..... 305 King St. San Francisco 7 ..... YU2-0788
Cal H. D. Long Co. ..... 4444 Radford Ave. N Hollywood ST7-6440
Ga Osgood & Associates Inc. ..... 988 Spring St. NW, Atlanta 9 ..... TR5-7804
NY A. F. Coventry ..... 11 W 42nd St. New York 36 ..... LO5-4073
Ohio P. E. Lax Co. ..... 13945 Lake Ave. Cleveland 7 ..... AC6-4874
Pa Lewis Electrical Equip. Co. ..... 5309 Germantown Ave. Phila 44
Wash Electric Agencies Inc. ..... 506 2nd Ave. Seattle 4 ..... MA3-2360

BRITISH PHYSICAL LABS. ..... Radlett, Herts, Eng RA4844
NY United Mineral & Chem. Corp. ..... 16 Hudson St. New York 13

BROADHURST CLARKSON & CO. LTD. 63 Farringdon Rd. London EC1, Eng
Eng Broadhurst, Clarkson & Co. Ltd. 69 Fenchurch St. London EC

BROADVIEW RESEARCH CORP. 1811 Trousdale Dr. Burlingame, Cal DI4-7625
DC Broadview Research Corp. ..... 2139 Wisc Ave. NW, Washington 7 ..... FE7-7300

BRODSKY, HOPF & ADLER ..... 220 E 23rd St. New York 10, NY MU6-2250

BROOKS INSTRUMENT CO. INC. 407 W Vine St. Hatfield, Pa UL5-5174
Del M. C. Care ..... Box 1368, Wilmington OL5-2383
NJ Brooks Instrument Co., Inc. ..... 92 Centre St. Nutley NO1-1188
NY Brooks Instrument Co., Inc. ..... 225 E 46th St. New York 17 ..... PL3-4028
Ohio The Abbott Co. ..... Box 41, Cincinnati 8 ..... EA1-2349
Ohio Chemical Pump & Eqpt. Corp. ..... 2000 Lee Rd. Cleveland 18 ..... ER1-4558
Pa M. S. Jacobs & Associates, Inc. 810 Noblestown Rd. Carnegie WA1-8140

BROOKS & PERKINS, INC. ..... 1926 W Fort St. Detroit 16, Mich TA5-3900
DC Brooks & Perkins, Inc. ..... 1632 K St. NW, Washington 6 ..... ST3-7792
NY Brooks & Perkins, Inc. ..... 1708 Americas Bldg. New York 20 ..... CI6-3580
Ohio T. H. Orndoff ..... 1113 Talbott Tower, Dayton 2 ..... BA2-8254

BROWN & ASSOCIATES, INC. W. A. Box 286, Indian River City, Fla. AM7-0411
Md W. A. Brown & Associates, Inc. 110 E Penna. Ave. Towson 4 ..... VA8-6744
Va W. A. Brown & Associates, Inc. 3610 Mt. Vernon Ave. Alexandria TE5-1800

BROWN IND. LTD., DAVID, JACKSON DIV. SALFORD WKS. Hampson St. Manchester, Eng

BROWN LABORATORY, HOOD DIV. 2263 Broadway, Grand Junction, Colo ... CH2-4589
Colo Van Waters & Rogers, Inc. ..... Box 5287, Denver 17 ..... DU8-5651

BROWNE-MORSE CO. ..... 110 E Broadway, Muskegon, Mich PE3-1221

BRUEL & KJAER ..... Linde Alle 23, Naerum, Den 80 05 00
Ohio B & K Instruments, Inc. ..... 3044 W 106th St. Cleveland 11 ..... CL1-8430
Aus National Instrument Co. ..... 390 Flinders St. Melbourne C.1. ..... FX1571
Belg Equipement Electronique ..... 184, Chaussee de Vleurgat, Bruxelles ..... (02) 47.06.13
Braz Produtos Eletronicos ..... Ahlmann-Ohlsen, S. A. Rua Joao Adolpho Sao Paulo 36-8514
Eng B & K Laboratories Limited ..... 4 Tilney St. London W. 1 ..... GR4587
Fr Societe Francaise Bruel & Kjaer 13, rue Duc. Paris 18eme ..... [illegible]
Ger Reinhard Kuhl K.G. ..... Jahnstr 85, 24b) Quickborn, Holstein QU382
Holl Peekel, Lab. voor Electronica ..... Albiasstr 1, Rotterdam 37154
Ital A.E.S.S.E. Piazza Ercules, 9 ..... (Via Rugabella), Milano (222) 891, 326
Jap Matsushita Elec. Trading Co. Ltd. 7, 6-Chome, Shiba-Tamuracho, Minato-Ku, Tokyo
Swed Svenska A/B Bruel & Kjaer ..... Brunnsgrand 4, Stockholm C. 20 11 32
Swit Megex Zurich G.m.b.H. ..... Badenerstr. 588, Zurich 48 ..... (051)

BRUSH BERYLLIUM CO. ..... 5209 Euclid Ave. Cleveland 3, Ohio EN1-5400
Cal Brush Beryllium Co. ..... 24353 Clawiter Rd. Hayward JE8-8600
NY Brush Beryllium Co. ..... 55 Church St. White Plains WH9-1210

BRUSH INSTRUMENTS DIV. CLEVITE CORP. 37th & Perkins, Cleveland 14, Ohio EN1-3315
Cal Brush Instruments ..... 1960 S La Cienega Blvd. Los Angeles 34 ..... UP0-7517
Cal Brush Instruments ..... 61 Renato Ct. Redwood City EM9-5581
Colo Brooks, Feeger & Associates ..... 3041 S Broadway, Englewood SU1-7375
DC Brush Instruments ..... 6715 Kentilworth Ave. Riverdale UN4-0057
Fla W. A. Brown & Associates, Inc. 104 E Gore Ave. Orlando GA5-5682
Ill H. Marsland & Co. ..... 6699 Lincoln Ave. Chicago 45 ..... OR6-1136
Mass Brush Instruments ..... 677 Worcester St. Natick CL3-3850
Mich The Satullo Co. ..... 4512 N Woodward, Royal Oaks JO6-2375
NY Burlingame Associates, Ltd. ..... 510 S Fulton Ave. Mt. Vernon MO4-7530
Tex M. Spears Co. ..... 4944 James Ave. Ft. Worth 15 ..... WA3-4657
Wash Brush Instruments ..... Boeing Fld. Adm. Bldg. Seattle PA3-8814

BRYANS AEROQUIPMENT LTD. Willow La. Mitcham, Surrey, Eng 5134/8
Aus S. Smith & Sons Pty. Ltd. ..... 46-52 Ferndell St. Guildford NSW.
Bel Avionica S. A. ..... 41 Leon Frederic, Brussels 4
Can Field Aviation Co. Ltd. ..... 857 Bank St. Ottawa, Ont.
Fr Societe Promesur ..... 19 Rue Eugene-Carriere, Paris
Ger G. H. Waugh ..... Apostelnstrasse 3, Koln
Holl Ing.-Bur. J & C. Vrins, N.V. ..... 58 Sweelinckstraat, The Hague
Isr C. Israel ..... Box 3123, Tel Aviv
Ital I. A. Jona ..... Via Lisbona, 9 Rome
SAfr Bowcliffe Ltd. ..... 29-31 Simmonds St. Ext. Johannesburg
Spn G. F. Mallet ..... Alarcon 7, Madrid
Swed Aero Materiel, A.B. ..... Grev. Magnigatan 6, Stockholm
Switz Aircraft Parts, Ltd. ..... Todistrasse 60, Zurich 2

BUCHLER & CO. ..... Frankfurter Str. 294, Braunschweig, Ger. .. 2 53 15
Ger Radium-Chemie ..... Untermainkai 34, Frankfurt am Main/Hessen

BUD RADIO, INC. ..... 2118 E 55 St. Cleveland 3, Ohio HE1-7166
Cal J. Berman Co., Inc. ..... 1141 S LaCienega Blvd. Los Angeles OL5-8920
Cal D. H. Ross Co. ..... 534 El Camino Real, San Carlos LY1-4411
Ill B. Cumming & Associates ..... 6029 W Belmont Ave. Chicago ME7-3770
Mass H. P. Segal Co., Inc. ..... 386 Washington St. Brookline 46 ..... BE2-7525
NJ H. A. Moyer Co. ..... 152 Merion Ave. Haddonfield HA9-7792
NM R. G. Bowen Co., Inc. ..... 2228A San Mateo Blvd. NE, Albuquerque AM5-1579
NY Willigold Electronic Sales Corp. 100 N Village, Rockville Centre RO4-4022
NY The Maney Sales Co. ..... 550 Merchants Rd. Rochester
NC Cartwright & Bean Co. ..... 625 Harwyn Dr. Charlotte FR6-5048
Tenn Cartwright & Bean Co. ..... 1336 Madison Ave. Memphis 4 ..... BR5-1814
Tex The Lund Co. ..... 2215 N Olive St. Dallas 1 ..... HI8-8838
Wash D. H. Burcham Co. ..... 422 1st Ave. W. Seattle 99 ..... AT4-7297

BUDD CO. INSTRUMENTS DIV. Box 245, Phoenixville, Pa WE3-8945
Cal Budd Co. ..... 3050 E 11th St. Los Angeles 23 ..... AN8-1371
Ga E. Rushin Co. ..... 786 Minona Blvd. Sowell ..... CE7-[illegible]
Ga G. L. Thompson ..... Atlanta 9 ..... TR4-7474
Ill Budd Co. ..... 1515 N Harlem Ave. Oak Park EU3-2751
Mich Ankofski Associates ..... 18915 Grand River Ave. Detroit 23 ..... KE2-4454
Ohio Bardel, Inc. ..... 12992 Lorain Ave. Cleveland CL2-2894
Tex G. L. Thompson ..... 137 Walnut Hill Village, Dallas 20 ..... FL1-3038
Tex E. G. Parmele Co. ..... 6339 Saratoga Circle, Dallas 14 ..... TA7-7556
Wis Larpen Industries, Inc. ..... 5512 State St. Milwaukee 8 ..... SF1-3060
Can Tatnall Marng. & Nuclear Sys. Ltd. 170 Donway W, Don Mills, Ont. HI7-5568

BUENLER, LTD. ..... 2120 Greenwood St. Evanston, Ill

BUFFALO PUMPS DIV. BUFFALO FORGE CO. North Tonawanda, NY NX3-1850
NY Buffalo Pumps Div. ..... 490 Broadway, Buffalo TL2-4567
Can Canadian Blower & Forge Co. Ltd. 162 East Ave. Kitchener, Ont. SH2-4371
Sales Offices in principal cities in U.S. & Canada

BUHL OPTICAL CO. ..... 1009 Beech Ave. Pittsburgh 33, Pa FA1-0276

BULLARD CO., E. D. ..... 2680 Bridgeway, Sausalito, Cal UN1-5630

BULOVA RESEARCH & DEVELOPMENT LABS. INC. 62-10 Woodside Ave. Woodside 77, NY HE9-5700
Cal C & H Supply Co. ..... 415 E Beach Ave. Inglewood DR8-4181
Ill Simpson/Rogers/Smith & Hunting 3756 W Devon Ave. Chicago 45 ..... OR3-5490
Kan C & H Supply Co. ..... 1725 E 2nd St. Wichita AM5-0899
Mich Eldredge Grier & Taylor ..... 18230 Grand River Ave. Detroit 23 ..... VE6-4191
Ohio R. Green Associates ..... 2717 Leighton Rd. Cleveland 20 ..... ER1-1888
Ohio G & H Sales Co. ..... Box 416, Cincinnati 37 ..... JE1-0563
Wash C & H Supply Co. ..... 2115 Boeing Airfield, Seattle PA2-8111

BURGESS BATTERY CO. DIV. SERVEL INC. Freeport, Ill ADZ-2161
Cal Burgess Battery Co. ..... 1855 Industrial St. Los Angeles 21 ..... MA8-9141
Ill Burgess Battery Co. ..... 4003 W Madison, Chicago 2 ..... NE2-2771
NY Burgess Battery Co. ..... 76 9th Ave. New York 11 ..... CH2-2270

BURKE & JAMES, INC. ..... 321 S Wabash, Chicago, Ill HA7-8393

BURLING INSTRUMENT CO., INC. 16 River Rd. Chatham, NJ ME5-9481
Cal C. Meriam Co. ..... 5017 Telegraph Rd. Los Angeles 22 ..... AN9-8271
Conn Mills & Co. ..... Box 55, New Canaan WO6-1531
Ill Kelburn Engineering Co. ..... 3136 Clarence Ave. Berwyn ST8-6484
Md G. Goodman Co. ..... 103 E 25th St. Baltimore 18 ..... BE5-5570
Mass Benson-Funk, Inc. ..... 27 Mica Ln. Newton Lower Falls 62 ..... WO9-9880
Mich J. W. Eskins Co. ..... 13040 Capital Ave. Oak Park, Detroit JO5-1461
NY H. C. Johnson Agencies, Inc. ..... 111 Mt. Hope Ave. Rochester 20 ..... HA6-1020
NY Mechanical Specialties Co. ..... 30 Church St. New York 7 ..... WO4-2521
Ohio C. H. Joy Co. ..... 27005 Knickerbocker Rd. Bay Village TR1-5908
Pa J. C. Whiddett Co. ..... 7714 W Chester Pike, Upper Darby TR8-6400
Tex Pan-Tech Engineering Co. ..... 3302 Mercer St. Houston 27 ..... JA6-4623
Can Baker Instruments, Limited ..... 185 Davenport Rd. Toronto 5, Ont. ..... WA4-[illegible]

BURNDEPT LTD. ..... West St. Erith, Kent, Eng

BURNS & ROE, INC. ..... 160 W Broadway, New York 13, NY REI-7000

BURR-BROWN RES. CORP. ..... Box 6444, Tucson, Ariz AX6-0772
Cal W. Theisner & Co. ..... 405 S Sunnyvale, Sunnyvale RE9-8463
Cal W. K. Geist Co. ..... 3177 Glendale Blvd. Los Angeles 39 ..... NO5-1195
Ill W. F. Marsh & Associates ..... 246 Chicago Ave. Oak Park EU6-2967
Md C. E. Snow Co. ..... 8218 Wisconsin Ave. Bethesda OL4-1767
Mass Measurement Equipment Co. Inc. Box 267, Wakefield CR6-2770
NY J. Williams Associates ..... 50 Main St. Orange, NJ OR5-7199
Pa C. E. Snow Co. ..... 919 E Phil-Ellena St. Philadelphia 50 ..... LI8-8043
Tex R. E. Salter ..... 208 Sidney St. Houston 3 ..... WA3-8728
Can Electromechanical Products ..... Markham Rd. Agincourt, Ont. AX3-7011
For Frazer & Hansen, Ltd. ..... 301 Clay St. San Francisco 11, Cal

BURROUGHS CORP. ..... Detroit 32, Mich TR5-2260
Cal Burroughs Corp. ..... 1649 Wilshire Blvd, Los Angeles 17 ..... HU3-4520
Cal Burroughs Corp. ..... 1930 Market St. San Francisco 2 ..... UN3-4062
DC Burroughs Corp. ..... 1739 H St. NW, Washington 6 ..... DI7-2758
Ga Burroughs Corp. ..... 961 W Peachtree St. NE, Atlanta TR5-8311
Ill Burroughs Corp. ..... 324 S Michigan Ave. Chicago 4 ..... WA2-7600
Ind Burroughs Corp. ..... 970 N Meridian St. Indianapolis ME5-8682
Mass Burroughs Corp. ..... 240 Newbury St. Boston CO7-9800

Mich	Burroughs Corp.	7351 Woodward Ave. Detroit 2	TR3-3000
Mo	Burroughs Corp.	3408 Lindell Blvd. St. Louis	OL2-0750
NY	Burroughs Corp.	219 Park Ave. S. New York 3	AL4-6350
Pa	Burroughs Corp.	250 N Broad St. Philadelphia 2	LO8-1400
Tex	Burroughs Corp.	1914 N Harwood St. Dallas	RI1-9983

BURROUGHS CORP. ELECTRONIC TUBE DIV. — Box 1226, Plainfield, NJ — PL7-5000

Cal	Tech-Ser, Inc.	3540 Wilshire Blvd. Los Angeles	DU5-1765
DC	L. G. White & Co.	880 Bonifant St. Silver Spring, Md.	JU5-3141
Ill	Lang, Cleason & Associates	6733 N Olmstead Ave. Chicago	SP4-3610
Ind	R. O. Whitesell & Associates	6620 E Washington St. Indianapolis	FL9-5374
Mass	Instrument Dynamics, Inc.	11 Albion St. Wakefield	CR6-5100
Mich	The Satullo Co.	4512 N Woodward Ave. Royal Oak	LI9-3910
NJ	R. M. C. Associates, Inc.	391 Grand Ave. Englewood	LO7-3933
NM	Brooks, Feeger & Associates	5510 Domingo Rd. NE. Albuquerque	AM8-1724
NY	J. A. Reagan Co.	45 N Lake Ave. Albany	HE6-9649
Pa	Eastern Associates, Inc.	820 Homestead Rd. Jenkintown	TU4-7200
Tex	A. Barnes Co.	3603 Lemmon Ave. Dallas	LA6-8735
Wash	Stanley Enterprises	127 River St. Seattle	PA3-3320

BUSH TRANSFORMER CORP. — 707 North St. Endicott, NY

BUSSMANN MFG. DIV McGRAW EDISON CO. — University at Jefferson, St. Louis 7, Mo — GA1-1740

Cal	Bussmann Mfg. Division	2166 Market St. San Francisco 14	UN3-2600
Cal	Bussmann Mfg. Division	1004 E 4th St. Los Angeles 13	MA5-1954
Haw	Dougherty Enterprises	334 Iilimalia Loop, Kailua	355275
Ill	Bussmann Mfg. Division	9 S Clinton, Chicago 6	DE2-1893
NJ	Bussmann Mfg. Division	93 Montgomery St. Jersey City 2	HE5-3600

BYRON JACKSON of CANADA, LTD. — Box 180, Sta. H. Toronto 13, Ont, Can — PL7-6241

Can	Byron Jackson of Canada, Ltd.	Box 4429, S Edmonton, Alb.	GE3-6779
Can	Byron Jackson of Canada, Ltd.	725 Decarie Blvd. Ville St. Laurent, Montreal 9, PQ	RI7-3601

BYRON JACKSON PUMPS, INC. — 2300 E Vernon Ave. LA 54, Cal. — LU7-6171

Ala	Byron Jackson Pumps, Inc.	10 Office Park Circle, Birmingham 13	TR1-1003
DC	Byron Jackson Pumps, Inc.	1204 Wis. Ave. Washington 7	FE7-1415
Ga	Byron Jackson Pumps, Inc.	3131 Piedmont Rd. NE, Atlanta 5	CE3-2138
Ill	Byron Jackson Pumps, Inc.	407 S Dearborn St. Chicago 5	HA7-2375
Mass	Byron Jackson Pumps, Inc.	980 Worcester St. Wellesley Hills 81	CE5-0805
NY	Byron Jackson Pumps, Inc.	580 5th Ave. New York 36	PL7-0400
Ohio	Byron Jackson Pumps, Inc.	13000 Triskett Ave. Cleveland 11	OR1-8200
Pa	Byron Jackson Pumps, Inc.	1828 Lewis Tower Bldg. Philadelphia 2	PE5-4712
Tex	Byron Jackson Pumps, Inc.	Drawer 2198, Houston 1	WA6-8321
Wash	Byron Jackson Pumps, Inc.	302 Lloyd Bldg. Seattle 1	MU2-7173

CBS ELECTRONICS — 100 Endicott St. Danvers, Mass — SP4-2360

CBS ELECTRONICS DIV. CBS INC. SEMICONDUCTOR OPER. — 900 Chelmsford St. Lowell, Mass — GL2-8961

Cal	CBS Electronics	2120 S Garfield Ave. LA	RA3-9081
Ga	C. Chapman & Co.	600 Trusco Way, SW, Atlanta	PL8-4506
Ill	CBS Electronics	1990 N Mannheim, Melrose Park	ES9-2100
Minn	The Heimann Co.	1711 Hawthorne Ave. Mnpls.	FE2-5457
NJ	CBS Electronics	231 Johnson Ave. Newark	TA4-2450
NY	CBS International	40 E 52nd St. New York	PL1-2345
Can	Canadian G. E. Import Co. Ltd.	189 Dufferin St. Toronto, Ont	LE4-6311

C B S LABORATORIES — High Ridge Rd. Stamford, Conn — DA5-4321

Cal	C. W. Fowler Co.	499 Hamilton Ave. Palo Alto	DA1-1810
Cal	C. W. Fowler Co.	429 S Western Ave. Los Angeles	DU4-7203
DC	Gawler-Knoop Co.	8732 Flower Ave. Silver Spring, Md.	JU5-7550
Fla	Ellison Co.	Box 2614, Jacksonville 3	EX8-6751
Ga	Ellison Co.	632 Healey Bldg. Atlanta 3	JA5-0238
NJ	Gawler-Knoop Co.	178 Eagle Rock Ave. Roseland	CA6-4545
NM	C. W. Fowler Co.	429 S Western Ave. Los Angeles, Cal	DU4-7203
NY	Gawler-Knoop Co.	178 Eagle Rock Ave. Roseland, NJ	CA6-4545
NC	Ellison Co.	632 Healey Bldg. Atlanta 3, Ga	JA5-0238
Pa	Gawler-Knoop Co.	835 Glenside Ave. Wyncote	WA7-1820
Tenn	Ellison Co.	632 Healey Bldg. Atlanta 3, Ga	JA5-0238
Va	Gawler-Knoop Co.	8732 Flower Ave. Silver Spring, Md.	JU5-7550

C.E.F.I.L.A.C. — 30 Ave. de Messine, Paris 8, Fr.

CPC ENGINEERING CORP. — Sturbridge, Mass — DI7-3318

CWC EQUIPMENT LTD. — Kings Gr. Maidenhead, Berks, Eng — MA2275

CADILLAC PLASTIC & CHEMICAL CO. 15111 2nd Ave. Detroit 3, Mich — TO9-9500

Cal	Cadillac Plastic Co.	2305 Beverly Blvd. Los Angeles 57	DU5-3001
Cal	Cadillac Plastic Co.	949 E 11th St. Oakland 6	TE6-0474
Cal	Cadillac Plastic Co.	313 Corey Way, S San Francisco 2	PL8-7740
Ill	Cadillac Plastic Co.	727 W Lake St. Chicago	FI6-7900
Ind	Cadillac Plastic Co.	2505 E Washington, Indianapolis 1	ME9-5343
Mo	Cadillac Plastic Co.	1517 Grand Ave. Kansas City 8	GR1-0500
Mo	Cadillac Plastic Co.	2111 Olive St. St. Louis 3	MA1-7900
Ohio	Cadillac Plastic Co.	1200 Walnut St. Cincinnati	PA1-7911
Ohio	Cadillac Plastic Co.	3338 Detroit Ave. Cleveland 13	OL1-1600
Tex	Cadillac Plastic Co.	2546 Irving Blvd. Dallas 7	RI7-7044
Tex	Cadillac Plastic Co.	6426 Long Dr. Houston 17	MI4-5626
Wis	Cadillac Plastic Co.	517 N Broadway, Milwaukee 2	BR6-9700

CAIRD LTD., FRANCIS — Africa House, Kingsway, London WC2, Eng

CALTRON PRODUCTS CO — 3518 W Pico Blvd. Los Angeles 19, Cal — RE4-2420

CAMBRIDGE DIV. STANDARD STEEL CORP. 2 Industrial Pk. Lowell, Mass

Cal	Standard Steel Corp.	5001 Boyle Ave. Los Angeles 58	
Ill	Standard Steel Corp.	Decatur	

CAMBRIDGE FILTER CORP. — 726 E Erie Blvd. Syracuse 1, NY — GR5-1608

Cal	Preferred Equipment, Inc.	5442 Jillson St. Los Angeles 22	RA3-6391
Cal	F. W. Berger, Jr.	57 Post St. San Francisco 4	YU2-0683
Colo	Air Purification Co.	4775 Fox St. Denver 16	GE3-2537
Ga	Crawley-Gorbandt Co.	118 W Peachtree Pl. NW, Atlanta 13	JA3-6206
Ill	Air Products Equipment Co.	832 N Wolcott St. Chicago 22	BR8-2240
Mass	Leonhardt Co. Inc.	Box 506, Boston 47	BE2-8800
Mich	D. T. Randall & Co.	530 Livernois Ave. Detroit 20	JO6-7130
Mo	D. M. Allen Co.	3021 Main St. Kansas City 8	LO1-8266
Mo	R. R. Waites Co.	4233 Chouteau Ave. St. Louis	JE3-4030
NY	Gayle, King & Carr, Inc.	132 W 43rd St. New York 36	LO3-5576
Pa	J. F. Scanlan, Inc.	330 Race St. Philadelphia 6	WA3-2171
Tex	J. R. Dowdell & Co.	Box 10666, Dallas 7	FL7-5631

CAMBRIDGE INSTRUMENT CO. INC. 420 Lexington Ave. New York 17, NY

CAMBRIDGE INSTRUMENT CO., LTD. 13 Grosvenor Pl. London SW1, Eng

NY	Cambridge Instrument Co. Inc.	420 Lexington Ave. New York 17	

CAMBRIDGE SMELTING CO. — 100 Pacific St, Cambridge, Mass — TR6-4867

CAMERON IRON WORKS, INC. — Box 1212, Houston, Tex — OV6-5511

Cal	D. W. Crawford	6269 Selma Ave. Hollywood	HO7-5149
Conn	J. P. McMurray	Sisk St. RFD 1, Middletown	DI6-4555
Can	Cameron Iron Works Ltd.	Box 4500, Edmonton, Alberta	
Eng	Cameron Iron Works Ltd.	76 Grosvenor St. London W 1	
Eng	Cameron Iron Works Ltd.	England & Queen St. Stourton, Leeds	
Fr	Cameron Iron Works de France	9 Ave. Franklin D. Roosevelt, Paris	
Fr	Cameron Iron Works de France	Beziers, Herault	
Mex	Cameron Iron Wks de Mexico S.A.	Paseo de La Reforma 76	DESP604

CANADIAN APPLIED RESEARCH LTD. — 750 Lawrence Ave. W, Toronto 19, Ont, Can — RU1-1571

CANADIAN GENERAL ELECTRIC CO., LTD. — 107 Park St. Peterborough, Ont. Can — RI2-7711

Alb	Canadian G.E. Co. Ltd.	3603 8th St. SE, Calgary	CH3-2781
BC	Canadian G.E. Co. Ltd.	350 E Broadway, Vancouver 12	HA7100
Man	Canadian G.E. Co. Ltd.	945 St. James St. Winnipeg 10	SP4-3581
NB	Canadian G.E. Co. Ltd.	101 Germain St. Saint John	OX3-1137
NS	Canadian G.E. Co. Ltd.	131 Howe Ave. Halifax	50551
Ont	Canadian G. E. Co. Ltd.	1350 Castlefield Ave. Toronto 19	RU1-1511
Ont	Canadian G. E. Co. Ltd.	214 King St. W. Toronto	EM6-7311
Que	Canadian G. E. Co. Ltd.	1010 Beaver Hall Hill, Montreal 1	UN6-2511
Sask	Canadian G.E. Co. Ltd.	107 Trent Bldg. Regina	LA2-5380

CANADIAN MARCONI CO. — 2442 Trenton Ave. Montreal 16, Canada — RE8-9441

Can	Canadian Marconi Co.	3594 Main St. Vancouver	TR6-4174
Can	Canadian Marconi Co.	830 Bayview Ave. Toronto	HU1-5221
Can	Canadian Marconi Co.	572 Barrington St. Halifax, N.S.	3-1325
Can	Canadian Marconi Co.	1710 3rd St. NE, Calgary	CR7-7571
Can	Canadian Marconi Co.	20 Barnes Rd. St. Johns, Nfld.	2881

CANADIAN RADIUM & URANIUM CORP. — 630 5th Ave. New York 20, NY — CI6-0460

CANADIAN VICKERS, LTD. — Box 550, Pl. D'Armes Sta. Montreal, Que, Can — CL6-2651

CANADIAN WESTINGHOUSE CO. LTD. Box 510, Hamilton, Ont, Can — JA8-8811

CANNON ELECTRIC CANADA, LTD. 160 Bartley Dr. Toronto 16, Ont. — PL7-2845

Can	Cannon Electric Co. Ltd.	Montreal Airport, Dorval, Que.	ME1-3626
Can	M. J. Howard & Co.	1168 Edgeland Pl. Ottawa 8, Ont.	PA8-2991

CANNON ELECTRIC CO. — 3208 Humboldt St. Los Angeles 31, Cal — CA5-1251

Ariz	Cannon Electric Co.	2801 Airlane, Phoenix	BR5-4792
Cal	Cannon Electric Co.	646 E Dyer Rd. Santa Ana	KI5-7121
Cal	Cannon Electric Co.	1845 S Manchester Ave. Anaheim	JE4-0110
Conn	Cannon Electric Co.	186 Main St. Branford	HU8-7209
Ill	Cannon Electric Co.	107 Gateway Rd. Bensenville	NA5-6480
Ind	Cannon Electric Co.	4508 Allisonville Rd. Indianapolis 5	LI6-5037
Kan	Cannon Electric Co.	4600 Laura St. Wichita 16	JA4-5841
Mass	Cannon Electric Co.	Pingree & Leavitt Sts. Salem	PI5-0700
Minn	Cannon Electric Co.	210 S 5th St. Minneapolis 2	FE6-3454
Mo	Cannon Electric Co.	420 On-the-Mall, Kansas 15	EN2-3313
Va	Cannon Electric Co.	3260 Wilson Blvd. Arlington 1	JA2-3260

CARATOM — 17 Bd. de la Libération, St. Denis, Seine, Fr — PLA70-90

CARBOLINE CO. — 32 Hanley Ind. Ct. St. Louis 17, Mo

Cal	T. G. Cullen	3710 Grand Ave. Oakland 10	GL2-3982
Cal	M. Garrett	1813 Pacific Coast Hwy. Hermosa Beach	SP2-1060
Fla	J. J. Parkinson	Box 10666, St. Petersburg 33	5-7708
Ill	D. Stoltenberg	419 N Ashland, Park Ridge	TA5-4132
Mich	March Corp.	23100 W 8 Mile Rd. Southfield	RE3-3946
NJ	W. H. Beck	4 S Lake Dr. Red Bank	SH1-2315
NY	S. Fiebach	Box 186, Nanuet	LO2-9667

Ohio	P. M. Kline & Assoc.	2086 E 22nd St. Cleveland 15	CH1-1171
Okla	D. Haynes	11 E 12th St. Tulsa 19	LU4-8748
Pa	D. D. Foster	2210 Koppers Bldg. Pittsburgh 19	AT1-0864
Pa	H. Smith	717 Madison St. Chester	TR2-2597
Tex	O. A. Melvin	Box 14284, Houston 21	GY9-9621

CARBORUNDUM METALS CO. Akron, NY LH2-5454

CARLSON INC., G.O. Thorndale, Pa DU4-7890

Cal	G. O. Carlson, Inc.	1299 Bayshore Hwy. Burlingame	DI2-4128
Ill	G. O. Carlson, Inc.	Box 128, Hillside	ES8-0178
Mass	G. O. Carlson, Inc.	Box 205, Wellesley Hills 82	CE5-4551
NJ	G. O. Carlson, Inc.	14 Prospect Pl. E Orange	MA3-8094
NY	G. O. Carlson, Inc.	3491 Delaware Ave.-Kenmore, Buffalo 17	BE3921
Ohio	G. O. Carlson, Inc.	6914 Miami Rd. Cincinnati 27	BR1-3947
Ohio	G. O. Carlson, Inc.	3100 Wooster Rd. Cleveland 16	ED3-0550
Pa	G. O. Carlson, Inc.	Box 190, Bala-Cynwyd	MO4-9938
Pa	G. O. Carlson, Inc.	Box 9708, Pittsburgh 29	WE1-5775

CARPENTER MFG. CORP. 6723 Denison Ave. Cleveland 2, Ohio

CARPENTER STEEL CO. 607 Washington St. Reading, Pa FR6-8211

Cal	Carpenter Steel Co.	3009 E 44th St. Los Angeles 58	LU7-9131
Conn	Carpenter Steel Co.	3284 Main St. Hartford 5	JA7-7174
Ga	Carpenter Steel Co.	Murphy & Bluff Sts. SW, Atlanta	JA3-6472
Ill	Carpenter Steel Co.	4501 James Pl. Melrose Park	FI5-5400
Ind	Carpenter Steel Co.	1618 W Washington St. Indianapolis 7	ME2-5401
Mich	Carpenter Steel Co.	7170 E McNichols Rd. Detroit 12	FO6-3400
Mo	Carpenter Steel Co.	3942 Laclede Ave. St. Louis 8	OL2-6700
NJ	Carpenter Steel Co.	1110 Globe Ave. Mountainside	ADE-8680
NY	Carpenter Steel Co.	27-07 Bklyn-Qns. Exp. W, Woodside	RA1-9210
Ohio	Carpenter Steel Co.	3811 Pacific Ave. Cincinnati 12	RE1-5088
Ohio	Carpenter Steel Co.	4901 W 150th St. Cleveland 35	CL2-2400
Pa	Carpenter Steel Co.	Ft. Washington Ind. Pk. Fort Washington	CH8-2500

CARPENTER STEEL CO. ALLOY TUBE DIV. Union, NJ

CARRIER CORP. Carrier Pkwy. Syracuse 1, NY HO3-8411

Cal	Carrier Corp.	5330 Harbor St. Los Angeles 22	OV5-8310
Ga	Carrier Corp.	2015 Peachtree Rd. NW, Atlanta	TR5-2781
Ill	Carrier Corp.	222 W N Bank Dr. Chicago 54	WH4-3441
NY	Carrier Corp.	385 Madison Ave. New York 17	PL9-5000
Ohio	Carrier Corp.	2203 Superior Ave. Cleveland 14	TO1-6640
Pa	Carrier Corp.	12 S 12th St. Philadelphia 7	MA7-7100
Tex	Carrier Corp.	10838 N Central Expwy. Dallas 1	EM8-3631

CARTER & CO., LTD., B. & F., ALBION WKS. Waterloo St. Bolton Lancs, England BO2-3344

NY	Prec-Matic Corp.	60 E 42nd St. New York 17	YU6-7684

CARTER CONTROLS, INC. 2800 Bernice Rd. Lansing, Ill

CARTER MOTOR CO. 2711 W George St. Chicago 18, Ill JU8-7700

Cal	H. Newnan	1299 Bayshore Hwy. Burlingame	DI2-7484
Cal	Perlmuth Electronics Assoc.	5057 W Washington Blvd. Los Angeles 7	WE1-1041
Conn	Bahr Sales Co.	Spring Valley Rd. Woodbridge	FU7-7812
Ga	F. Fausett & Co.	777 Pinehurst Terr. SW, Atlanta	PL3-3104
Md	C. Lienau & Co.	9427 Georgia Ave. Silver Spring	JU7-5888
Mich	L. Zaffina	7351 Gratiot Ave. Detroit 13	WA1-2885
NY	R. W. Mitscher & Co.	487 Ellicott Sq. Bldg. Buffalo 3	WA2517
NY	Carduner Sales Co.	80 Shore Rd. Port Washington	PO7-7700
Pa	H. Fairbanks	1615 Darby Rd. Havertown	GR2-2467
Pa	J. Covert	320 Jonquil Pl. Pittsburgh 34	LE1-4471
Tex	M. F. Klicpera & Co.	Box 3113, Houston 1	JA2-8459
Wash	Northwestern Agencies	4130 1st Ave. S, Seattle 4	MA3-8882

CARTER & VINER Cooden Sea Rd. Bexhill, Sussex, Eng CO143

Eng	C. Phillips Jones & Co. Ltd.	Dorchester on Thames, Oxford	WA400

CASH CO. A.W. DIV. RILEY STOKER 540 N 18th St. Decatur, Ill

CASH VALVE MFG. CORP. Wabash & Morgan, Decatur 60, Ill 42-8574

Cal	J. A. Riordan Co.	1400 Santa Fe Ave. Los Angeles
Ill	C. F. Stumpf	427 W Erie St. Chicago
NY	R. D. Carter Corp.	101 Park Ave. New York 17

CATALYTIC CONSTRUCTION CO. 1528 Walnut St. Philadelphia 2, Pa KI5-7500

Cal	Robert W Spears	11854 Paso Robles Ave. Granada Hills	EM3-5532
NY	John A Hufnagel	342 Madison Ave. New York	YU6-4166
Ohio	Raymond R Blickle	Box 692, Toledo 1	OX3-4441
Tex	Charles H Edmondson	712 Division St. Orange	TU6-3681
Can	Gordon R Henderson	149 Victoria St. Sarnia, Ontario, Can	ED7-8271

CAWKELL RESEARCH & ELECTRONICS LTD. Scotts Rd. Southall, Middlsx, Eng SO3702

Eng	Applied Research (Instruments), Ltd.	Emefco House, Reigate, Surrey

CAYUGA MACHINE & FABRICATING CO. INC. 200 W Gould Ave. Depew, NY MU1200

CEDAR RAPIDS ENGINEERING CO. 902 17th St. NE, Cedar Rapids, Iowa EM3-9604

CENTRAL ELECTRONIC MFRS. 2 Rickwood Pl. Denville, NJ OA7-4200

Cal	R. W. Thompson Associates	814 San Antonio Rd. Palo Alto	DA1-6383
Ill	W. G. Broulette & Associates	1558 Newcastle Ave. Westchester	FI5-6500
Mass	G. J. Neumann & Co.	104 Pilgrim Rd. Wellesley	CE5-5353

Mo	G. Fixman	8160 Stanford Ave. St. Louis	PA5-5219
NY	S. F. Foster	204 Southfield Dr. Fayetteville	
Can	Rogan Electronic Tube Co.	116 Vanderhoof Ave. Toronto, Ont	HU5-8621
For	TelTech International	333 E 46th St. New York 17, NY	YU6-2244

CENTRAL RESEACH LABORATORIES, INC. Red Wing, Minn DU8-3566

CENTRAL SCIENTIFIC CO. 1700 Irving Park Rd. Chicago 13, Ill WE5-8600

Ala	Central Scientific Co.	3232 11th Ave. N, Birmingham 4
Cal	Central Scientific Co. of Cal	6446 Telegraph Rd. Los Angeles 22
Cal	Central Scientific Co. of Cal	1040 Martin Ave. Santa Clara
Mass	Central Scientific Co.	McGrath Hwy. Somerville
NJ	Central Scientific Co.	237 Sheffield St. Mountainside
Okla	Refinery Supply Co.	621 E 4th St. Tulsa 20
Tex	Refinery Supply Co.	6610 Stillwell, Houston 32

CENTRAL TRANSFORMER CO. 900 W Jackson Blvd. Chicago 7, Ill TA9-1936

Ala	F. Wamble Sales Co.	3867 Sherwood Dr. Montgomery 9	AM2-1873
Cal	M. B. Gilbert Co. Inc.	8037 Denrock Ave. Los Angeles 45	
Md	Ansell Engineering Co.	11212 Grandview Ave. Silver Spring	LO5-0960
Mass	Bordewieck Eng. Sales Co.	221 Grove St. Braintree	VI3-0845
NY	William Richter Corp.	107 Dolores Terr. S, N Syracuse	GL4-1051
NY	G. Weiland	76-49 168th St. Flushing 66	OL8-4061

CENTRALAB DIV. GLOBE-UNION, INC. 900 E Keefe Ave. Milwaukee 1, Wis WO2-9200

Cal	Walter S Harmon Co.	Box 1380, Beverly Hills	OL5-6340
Cal	Logan Sales Co.	150 8th St. San Francisco	HE1-0692
Colo	McLoud & Raymond Co.	Box 8848, Denver 22	SK6-1589
Ga	Frank Nickerson Co.	828 Medlock Rd. Decatur	ME6-2752
Mass	Stanley A. Harris Co.	1241 Highland Ave. Needham	HI4-4780
NJ	David P. Galasso Sales	Box 84, Nutley	NO1-1300
NJ	George P. Marron Co.	712 Norman Pl. Westfield	AD2-9448
NY	Wilson H. Zimmerman	112 Dewitt St. Syracuse 3	GR4-4489
Pa	S. K. MacDonald, Inc.	1531 Spruce St. Philadelphia	KI5-1205
Tenn	A. S. Engelman Co.	3205 Crump Ave. Memphis	GL8-6263
Tex	Robert E. Nesbitt	1925 Cedar Springs, Dallas 1	RI7-5824
Wash	J. J. Backer Co.	Box 9077, Seattle	AT3-6470

CENTURY ELECTRONICS & INSTRUMENTS, INC. Box 6216, Tulsa 10, Okla

CERIUM METALS & ALLOYS DIV. RONSON METALS CORP. 45-65 Manufacturer Pl. Newark 5, NJ MA4-1380

CERRO DE PASCO SALES CORP. 300 Park Ave. New York 22, NY MU8-8822

Cal	Peck-Lewis Corp.	4436 Long Beach Ave. Los Angeles	AD3-7148
Conn	L. Heres De Wyk & Co. Inc.	89 Main St. Ansonia	RE4-5621
Ga	Bolden Die Supply Co.	1171 Lee St. SW, Atlanta	PL3-4181
Ill	Sterling Products Co. Inc.	121 N Jefferson St. Chicago	ST2-1126
Mass	Lewin-Mathes Co.	729 Boylston St. Boston	CO7-1195
Mich	Gullberg Ind. Eqpt. Corp.	1805 E 9 Mile Rd. Ferndale	PO6-2480
Mo	Metal Goods Corp.	8800 Page Blvd. St. Louis	HA7-1234
NY	Belmont Smelting & Refng. Wks.	330 Belmont Ave. Brooklyn	DI2-4900
Ohio	Die Supply Div. E. W. Bliss Co.	1400 Brookpark Rd. Cleveland	SH1-9000
Pa	Jackson-Walter Co.	2027 Arch St. Philadelphia	LO3-7470
Wis	Williams-Collins, Inc.	4065 N Montreal St. Milwaukee	DI2-3850

CHAMBERLAIN IND. LTD. STAFFA WKS. Argall Ave. Leyton E10, Eng LE3678

Mich	Double A Products Co.	Manchester
Afr	West & Du Toit (Pty) Ltd.	11 Ffennell Rd. Johannesburg
Aus	Lucas Rotax Ltd.	Nepean Hwy. S 22, Victoria
Can	Affiliated Eng. Corp. Ltd.	940 Cote de Liesse Rd. Montreal
Holl	Van Rietschoten & Houwens	Rotterdam W.
Swed	Aktiebolaget AGEBE	Luntmakargatan, Stockholm 3

CHANCE-PILKINGTON OPTICAL WORKS St. Asaph, Flintshire, G.B. ST3281

Ill	Alfa American Corp.	5420 Walker Ave. Rockford	TR7-1484
NY	Alfa American Corp.	303 W 42nd St. New York 36	PL7-2120

CHANCE VOUGHT ELECTRONICS DIV. Box 5907, Dallas 22, Tex AN2-3211

Ala	Chance Vought Aircraft, Inc.	Memorial Pkwy. S, Huntsville	JE9-7401
Cal	Chance Vought Aircraft, Inc.	690 N Sepulveda Blvd. El Segundo	OR8-5785
Colo	Chance Vought Electronics Div.	Littleton Blvd. Littleton	
DC	Chance Vought Aircraft, Inc.	1000 Conn Ave. NW, Washington 6	RE7-1638
NY	Chance Vought Aircraft, Inc.	600 Old Country Rd. Garden City	PI1-5320
Ohio	Chance Vought Aircraft, Inc.	333 W 1st St. Dayton 2	BA4-0549

CHAPMAN VALVE MFG. CO. 283 Hampshire St. Indian Orchard, Mass

CHARLESTON RUBBER CO. Stark Industrial Pk. Charleston, SC SH4-7434

CHASE BRASS & COPPER CO. 236 Grand St. Waterbury, Conn PL6-9444

Cal	Chase Brass & Copper	230 Shaw Rd. San Francisco	JU3-4994
Colo	Chase Brass & Copper	5101 Colorado Blvd. Denver 16	DU8-2441
Ill	Chase Brass & Copper	5401 W Grand Ave. Chicago 39	TU9-4000
La	Chase Brass & Copper	1000 S Jeff Davis Pkwy. New Orleans 25	HU6-5441
Mich	Chase Brass & Copper	14480 Woodrown Wilson Ave. Detroit 38	TO8-2939
NY	Chase Brass & Copper	55-60 58th St. Maspeth	TW4-0500
Ohio	Chase Brass & Copper	222 Post Sq. Cincinnati 2	PA1-3326
Ohio	Chase Brass & Copper	4000 Chester St. Cleveland 3	HE2-2300
Pa	Chase Brass & Copper	20th & Venango Sts. Philadelphia 40	BA3-5800
Tex	Chase Brass & Copper	5052 Sharp St. Dallas 7	RI7-4271
Wis	Chase Brass & Copper	1741 W St. Paul Ave. Milwaukee 1	DI2-7638

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	CHEMICAL COMMERCE	**166 Clifford St. Newark 5, NJ**	**MI2-1457**
	CHEMICAL DEVELOPMENT CORP.	**Endicott St. Danvers, Mass**	**SP4-1990**
	CHEMICAL PROCESS CO.	**Box 829, Redwood City, Cal**	**EM9-0071**
Cal	Chemical Process Co.	2048-A E Gage Ave. Huntington Park	LU8-8171
Ill	Chemical Process Co.	5525 W North Ave. Chicago	TU9-8087
Pa	Chemical Process Co.	23 W Maplewood, Philadelphia 44	BA6-1450
Wash	Chemical Process Co.	Box 510, Tacoma	BR2020
	CHEMICAL SEPARATIONS CORP.	**Box 1981, Oak Ridge, Tenn**	**2-1402**
	CHEMPUMP DIV. FOSTORIA CORP.	**Buck & County Line Rd. Dept. D-20, Huntingdon Valley, Pa**	
	CHEM-PURE SERVICE CO.	**762 Industrial Rd. San Carlos, Cal**	**LY3-8218**
Cal	Coffman Engineering Co.	6066 E Olympic Blvd. Los Angeles	RA3-0166
Idah	Cline Equipment Co.	233 S West Temple, Salt Lake City, Utah	EL5-3814
Utah	Cline Equipment Co.	233 S West Temple, Salt Lake City	EL5-3814
Wyo	Cline Equipment Co.	233 S West Temple, Salt Lake City, Utah	EL5-3814
	CHEMTROL	**404 W Central, Santa Ana, Cal**	**KI9-2216**
NY	Chemtrol	150 Broadway, New York City	CO7-4963
Ohio	Chemtrol	2618 Eluanor Ave. Cleveland 34	
	CHESAPEAKE INSTRUMENT CORP.	**Shadyside, Md**	
	CHICAGO ALLIS MFG. CO.	**113-125 N Green St. Chicago 7, Ill**	
	Sales Offices/Reps in all principal cities		
	CHICAGO APPARATUS CO.	**1735 N Ashland Ave. Chicago 22, Ill**	**BR4-4630**
DC	Chicago Apparatus Co.	919 18th St. NW, Wash 6	
Mo	Chicago Apparatus Co.	1827 McGee St. Kansas City 8	
Mo	Chicago Apparatus Co.	5147 Brown Ave. St. Louis 15	
	CHICAGO BRIDGE & IRON CO.	**332 S Michigan Ave. Chicago 4, Ill**	**HA7-6708**
Cal	Chicago Bridge & Iron Co.	100 Bush St. San Francisco	EX2-9236
Cal	Chicago Bridge & Iron Co.	712 Fair Oaks Ave. S Pasadena	MU2-2866
Mass	Chicago Bridge & Iron Co.	201 Devonshire St. Boston	HA6-8441
Mich	Chicago Bridge & Iron Co.	Lafayette Bldg. Detroit	WO3-0055
NY	Chicago Bridge & Iron Co.	165 Broadway, New York	CO7-2900
Ohio	Chicago Bridge & Iron Co.	25 Prospect Ave. Cleveland	CH1-1218
Okla	Chicago Bridge & Iron Co.	2651 E 21st St. Tulsa	RE5-5511
Pa	Chicago Bridge & Iron Co.	6 Penn Center Plaza, Philadelphia	LO3-5335
Pa	Chicago Bridge & Iron Co.	801 Grant St. Pittsburgh	GR1-5559
Tex	Chicago Bridge & Iron Co.	C & I Life Bldg. Houston	CA3-4425
Utah	Chicago Bridge & Iron Co.	550 W 17th South, Salt Lake City	HU4-8551
	CHICAGO DEVELOPMENT CORP.	**5810 47th Ave. Riverdale, Md**	**AP7-2821**
	CHICAGO GASKET CO.	**1271 W North Ave. Chicago 22, Ill**	**HU6-3040**
Iowa	Silco Equipment Co.	Box 8856, Kansas City 15, Mo	VA8104
Kan	Silco Equipment Co.	Box 8856, Kansas City 15, Mo	VA8104
Ky	Lee & Storrs	2111 Carew Tower, Cincinnati 2, Ohio	CH1-8400
Minn	Dygert Co.	5220 W 56th St. Minneapolis 24	WE9-7784
Mo	Silco Equipment Co.	Box 8856, Kansas City 15	VA8104
Neb	Silco Equipment Co.	Box 8856, Kansas City 15, Mo	VA8104
Ohio	Lee & Storrs	2111 Carew Tower, Cincinnati 2	CH1-8400
Okla	Silco Equipment Co.	Box 8856, Kansas City 15, Mo	VA8104
	CHICAGO TRANSPARENT BAG CO.	**4806 W Chicago Ave. Chicago 51, Ill**	**ES8-6566**
	CHIYODA CHEMICAL ENG. & CONS. CO., LTD.	**1-30, Shiba-Shinbashi, Minato-Ku, Tokyo, Jap**	**TO6121**
Jap	Chiyoda Chem Eng & Con Co Ltd.	1 Imabashi 4-chome, Higashi-Ku, Osaka (23)	1689
	CHRISTIE ELECTRIC CORP.	**3410 W 67th St. Los Angeles 43, Cal**	**PL8-1151**
Ariz	Gramer & Co.	444 W Camelback Rd. Phoenix	CH9-1231
Colo	Parrish Electronics	2130 S Albion, Denver 22	EK6-9454
Ga	Southeast Engineering Co.	3223 Cain's Hill Pl. NW, Atlanta 5	CE7-2273
Ill	K. W. Meyers Co.	6713 N Oliphant Ave. Chicago 31	SP 4-6440
Kan	L. J. Morefield Co.	713 Brookfield Rd. Wichita 6	MU6-7531
Md	C. F. Paddock	8616 Georgia Ave. Silver Spring	JU9-6554
Mass	Schaal Associates, Inc.	11 Muzzey St. Lexington	VO2-3578
Minn	Wood Clemons Co.	1645 Hennepin Ave. Minneapolis 9	FE9-0707
NJ	L & M Associates	511 Victor St. Saddle Brook	DE3-3070
NY	L. L. Schley Co.	Box 214, DeWitt	WA6-0235
Ohio	Service Equipment Elec. Inc.	4500 Euclid Ave. Cleveland 3	HE1-7030
Wash	S. N. Stroum Co.	621 Michigan St. Seattle 4	PA3-7310
	CHROMIUM CORP. OF AMERICA	**Box 1229, Waterbury 20, Conn**	**PL4-3141**
Ill	Chromium Corp. of America	4645 W Chicago Ave. Chicago 51	AU7-3716
Ohio	Chromium Corp. of America	8701 Union Ave. Cleveland 5	BR1-4210
NJ	Chromium Corp. of America	Rahway	FU1-5000
NY	Chromium Corp. of America	100 Park Ave. New York 17	LE3-6300
	CINCINNATI SUB ZERO PRODUCTS	**3932 Reading Rd. Cincinnati ,Ohio**	**PL1-8810**
Cal	L. H. Freeman Co.	4063 Radford Ave, Studio City	TR7-0266
Conn	L. Heres De Wyk & Co. Inc.	89 Main St. Ansonia	RE4-5681
Ill	Sherertz-Henderson Co.	5707 W Lake St. Chicago	CO1-1032
Kan	L. L. Hill	1636 Garland Ave. Wichita	AM7-3850
Md	Precision Sales Co.	8616 Georgia Ave. Silver Spring	JU9-7590
Mich	Schaffer Engineering Co.	9000 Livernois, Detroit	WE3-8866
Mo	E. Sturm	8768 Dell Vista Dr. St. Louis	PR1-8080
NY	J. F. Owens Machinery Corp.	1804 Erie Blvd. E, Syracuse 1	GR2-3326
Ohio	S. E. Wallar	3521 Harvard Blvd. Dayton 6	CR5-4151
Wash	N. Winikoff	2700 Beacon Ave. Seattle 44	EA5-6262
	CIRCO ULTRASONIC CORP.	**51 Terminal Ave. Clark, NJ**	**FU8-3600**
Cal	H. Gray Co.	2166 Market St. San Francisco	XL2-1777
Fla	A. J. Maiocchi	1800 Central Ave. St. Petersburg	ST5-7793
Ill	Chemray Corp.	10150 Roosevelt Rd. Westchester	FI4-2400
Mass	Chemical Corp.	54 Waltham Ave. Springfield 9	RE9-5661
Mich	R. Pflug	4062 S Lake St. Glennie	RE5-2134
Ohio	W. H. Webb	1501 Euclid Ave. Cleveland	SU1-0692
Ohio	R. McDaniel	1440 W 8th St. Cincinnati	MA1-0287
Ohio	Ind. Electronic Lab.	606 LaGrange St. Toledo	CH4-5827
Tex	The Gay Sales Co.	420 Sul Ross St. Houston	JA9-3479
Wash	A. E. Creek	1405-106th NE, Bellevue	GL4-1593
Wis	O'Donohue Industries	3818 N Hubbard St. Milwaukee	WO2-3280
	CITY CHEMICAL CORP.	**132 W 22nd St. New York 11, NY**	**WA9-2723**
	CLARAGE FAN CO.	**1 Clarage Pl. Kalamazoo, Mich**	**FI9-1541**
	CLARK BROS. CO.	**Lincoln & 5th St. Olean, NY**	**22101**
Cal	Clark Bros. Co.	5120 Pacific Blvd. Los Angeles 58	LU3-4207
Cal	Clark Bros. Co.	417 Market St. San Francisco 5	YU1-1412
Colo	Clark Bros. Co.	620 - 17th St. Denver	CH4-9213
Ga	Clark Bros. Co.	3166 Maple Dr. NE, Atlanta 5	CE3-9677
Ill	Clark Bros. Co.	919 N Michigan Ave. Chicago 11	WH4-5411
La	Clark Bros. Co.	1207 Petroleum Tower Bldg. Shreveport	2-9124
Mass	Flagg, Brackett & Durgin, Inc.	183 Essex St. Boston 11	HU2-4120
NY	Clark Bros. Co.	122 E 42nd St. New York 17	OX7-2800
Okla	Clark Bros. Co.	1354 S Sheridan Rd. Tulsa 12	TE5-8437
Pa	Clark Bros. Co.	1612 Market St. Philadelphia 3	LO3-8828
Pa	Clark Bros. Co.	2 Gateway Center, Pittsburgh 22	CO1-0718
Tex	Clark Bros. Co.	1619 Ovid St. Houston 10	CA8-2331
	CLARK CONTROLLER CO.	**1146 E 152 St. Cleveland 10, Ohio**	**UL1-2000**
Ala	The Clark Controller Co.	1747 Reese St. Birmingham 9	TR9-3457
Cal	The Clark Controller Co.	4755 E 49th St. Los Angeles 58	LU3-6366
Cal	The Clark Controller Co.	72 E 3rd Ave. San Mateo	DI2-6051
Ill	The Clark Controller Co.	9107 W Ogden Ave. Brookfield	HU5-0707
Mass	The Clark Controller Co.	369 Boylston St. Boston 59	BI4-8200
Mich	The Clark Controller Co.	15830 W 7-Mile Rd. Detroit 35	VE9-2735
Mo	The Clark Controller Co.	7 N Brentwood Blvd. St. Louis 5	PA7-7278
NY	The Clark Controller Co.	1263 E Delavan Ave. Buffalo 15	TA1484
NY	The Clark Controller Co.	60 E 42nd St. New York 17	MU2-1743
Ohio	The Clark Controller Co.	13878 Cedar Rd. Cleveland 18	ER1-3600
Pa	The Clark Controller Co.	119 Coulter Ave. Ardmore	GR7-0707
Pa	The Clark Controller Co.	2892 W Liberty Ave. Pittsburgh 16	LO1-3542
Can	Firth Brown Steels, Ltd.	840 Cote de Liesse Rd. Montreal	RI4-2891
	CLARK MANUFACTURING CO.	**1830 E 38th St. Cleveland 14, Ohio**	**EX1-1414**
NY	M. W. Black & Co., Inc.	41 E 42nd St. New York 17	MU7-2980
	CLAROSTAT MFG. CO., INC.	**Dover, NH**	**SH2-1120**
	CLAYTON ENGINEERING CO.	**Orchard St. Crawley Sussex, Eng**	**CR2-6238**
	CLEAVER-BROOKS SPECIAL PRODUCTS INC.	**225 N. Grand Ave. Waukesha, Wis**	**LI2-5741**
Cal	J. M. Sturman	3125 Withers Ave. Lafayette	TE4-9687
Md	R. I. Preuit	8536 W Howell Rd. Bethesda	EM5-6336
NY	Cleaver-Brooks Co.	220 E 42nd St. New York	MU2-3109
	CLEVELAND GRAPHITE BRONZE DIV. CLEVITE CORP.	**17000 St. Clair Ave. Cleveland 10, Ohio**	**IV1-7221**
Cal	Cleveland Graphite Bronze Div.	4629 Van Nuys Blvd. Van Nuys	ST8-0660
Ill	Cleveland Graphite Bronze Div.	332 S Michigan Ave. Chicago 4	WA2-6230
Mich	Cleveland Graphite Bronze Div.	6-259 Gen Motors Bldg. Detroit 2	TR2-3453
NY	Cleveland Graphite Bronze Div.	405 Lexington Ave. New York 17	OX7-7860
	CLEVITE TRANSISTOR PRODUCTS	**241-257 Crescent St. Waltham 54, Mass**	**TW4-7130**
Ariz	Fryce	355 N Scottsdale Rd. Scottsdale	WH5-8071
Cal	Cornell & Associates	Box 509, Redwood City	EM9-3354
Cal	Clevite Transistor	3402 W Century Blvd. Inglewood	OR2-4127
Ill	Clevite Transistor	1915 N Harlem Ave. Chicago	TU9-7070
Minn	R. C. Ragon, Inc.	1406 W Idaho Ave. St. Paul	MI6-6997
Mo	W. E. Fry Co.	406 W 34th St. Kansas City 11	JE1-5326
NY	Clevite Transistor	338 Northern Blvd. Great Neck	HU7-9414
NY	Fowler Beach Corp.	3700 East Ave. Rochester	LU6-0468
NC	J. L. Highsmith & Co.	3733 Monroe Rd. Charlotte 5	FR7-3546
Pa	Clevite Transistor	105 Town Ctr. Rd. King of Prussia	BR9-8280
Wash	Ray Johnston & Co.	1011 E 60th St. Seattle 15	LA4-5170
	CLIFTON PRECISION PRODUCTS CO., INC.	**5050 State Rd. Drexel Hill, Pa**	
	CLIMAX MOLYBDENUM CO. DIV. AMER. METAL CLIMAX, INC.	**1270 Ave of the Americas, New York 20, NY**	**PL7-9700**
Cal	Climax Molybdenum Co.	650 S Grand Ave. Los Angeles 17	MA7-1029
Colo	Climax Molybdenum Co.	Midland Savings Bldg. Denver 2	KE4-8971
Ill	Climax Molybdenum Co.	230 N Michigan Ave. Chicago 1	CE6-2027
Pa	Climax Molybdenum Co. of Pa	1182 Union Trust Bldg. Pittsburgh 19	AT1-6238
	COASTWISE MARINE DISPOSAL CO.	**Box 43556, Hyde Park Sta. LA 42, Cal**	
	COCHRAN & CO. ANHAM, LTD.	**34 Victoria St. London SW1, Eng**	

	COCHRANE CORP.	**3214 17th St. Philadelphia 32, Pa**	**BA5-2144**
Ga	Boiler Equipment Service Co.	1079 Alco St. NE, Atlanta 24	ME4-7373
Ill	Cochrane Engineering Corp.	309 W Jackson Blvd. Chicago 6	HA7-0120
Ind	Dehaven Engineering Co.	115 N Penn. St. Indianapolis 4	ME2-2563
Mass	Cochrane Steam Specialty Co.	55 Batterymarch St. Boston 10	HA6-5447
Mich	The F. H. Mason Co.	1916 Ford Bldg. Detroit 26	WO5-3799
Mo	Lane Machinery Co.	7th & Market Sts. St. Louis 1	CE1-0011
NY	Cochrane Corp.	261 Madison Ave. New York 16	MU2-3135
NY	D. R. Mixsell Co.	Box 65, Roselawn Sta. Rochester 18	LL6-2080
NC	Brown & Morrison	1900 E 7th St. Charlotte 4	ED3-0774
Pa	Dravo Corp.	5th & Liberty Ave. Pittsburgh	EX1-2600
Tenn	Dickey Engineering Co.	3009 Central Ave. NW. Knoxville 17	EN4-8641
	COLE ELECTRIC CO.	**8439 Steller Dr. Culver City, Cal**	**UP0-4701**
Cal	M. B. Gilbert Co.	Box 45824, Los Angeles 45	OR8-3418
Cal	Cashin & Tipton	3270 Roecrans, San Diego 10	AC2-0408
Cal	K. M. Ryalls Co.	141 King St. San Francisco 7	YU2-5510
Colo	Aviation Products	817 Quentin St. Aurora	EM6-7651
Ga	W. V. Gearhart Co.	Gearhart Bldg. Atlanta 16	CE3-4431
Kan	Aviation Products	6631 E Kellogg, Wichita	MU4-0218
Mo	L. G. Wendegatz	4610 Troost Ave. Kansas City	WE1-1355
NY	D. Berman & Sons Sales Co.	534 E 26th St. Brooklyn 10	UL9-3100
Tex	E. B. Robertson Co. Inc.	1339 Plowman Ave. Dallas 3	WH2-3157
	COLLINS CORP. G.L.	**2820 E Hallett St. Long Beach 5, Cal**	**HE9-3121**
	COLORADO RESEARCH CORP.	**Broomfield, Colo.**	**HA9-3501**
	COLUMBIA ELECTRIC MFG. CO.	**4519 Hamilton Ave. Cleveland 14, Ohio**	**EN1-8040**
	COLUMBIA NATIONAL CORP.	**1 Gateway Center, Pittsburgh, Pa**	
	COLUMBIA TECHNICAL CORP.	**61-02 31 Ave. Woodside 77, NY**	**AS8-7401**
Cal	M. W. Riedel & Co.	136 E Valley Blvd. Alhambra	CU3-7694
DC	Arco Engineering Co.	733 15th St. NW, Washington 5	EX3-5991
Ga	F. Fausett, Inc.	777 Pinehurst Terrace, SW, Atlanta 10	PL3-3104
Ill	L. G. Bacher & Associates	4216 W Division St. Chicago 51	BE5-6601
NY	Young Associates	907 Monroe Ave. Rochester 20	BR1-2136
NY	G. H. Weiland	76-49 168th St. Flushing 66	OL8-4061
	COLUMBIAN-GENERAL BLACKS, LTD.	**Four Ashes, Wolverhampton, Eng.**	**ST205**
Eng	Columbian Intl. (GB) Ltd.	116 Cannon St. London E.C.4	MA5277
	COMAR ELECTRIC CO.	**3349 W Addison St. Chicago 18, Ill**	
Cal	M. A. Stolaroff Co.	4622 W Slauson Ave. Los Angeles 43	AX3-6226
Colo	C. F. L. Co.	1871 S Broadway, Denver 10	SP7-4331
Fla	M. K. Smith Co.	208 14th St. NW, Atlanta 13	TR5-8031
Ind	R. J. Haffey Co.	6629 Coldwater Rd. Fort Wayne 8	TR7381
Mass	Walworth Controls Co.	131 Main St. Rocky Hill	JA9-6806
Minn	D. Merrick	2160 E Geranium Ave. St. Paul 19	PR1-4392
Mo	G. E. Harris Co.	3241 E Douglas Ave. Wichita 8	MU2-2731
Nev	D. H. Ross Co.	534 El Camino Real, San Carlos	LY1-4411
Ohio	W. J. Brauer & Associates	15631 Lakewood Hts. Blvd. Cleveland 7	LA1-7268
NJ	Willgold Electronic Sales Corp.	100 N Village Ave. Rockville Centre, NY	SO4-4022
NY	R. W. Mitscher Co. Inc.	487 Ellicott Square Bldg. Buffalo 3	WA2517
Pa	V. S. Malta Co.	Box 4007, Philadelphia 18	VE6-5122
	COMBUSTION ENGINEERING INC	**200 Madison Ave, New York 16, NY**	**MU9-6500**
Ala	Combustion Engineering, Inc.	1028 7th Ave. Birmingham 2	FA2-1708
Cal	Combustion Engineering, Inc.	615 S Flower St. Los Angeles 17	MA5-5711
Cal	Combustion Engineering, Inc.	155 Sansome St. San Francisco 4	YU2-6262
DC	Combustion Engineering, Inc.	1001 Conn Ave. NW, Wash 6	DI7-1418
Ill	Combustion Engineering, Inc.	105 W Adams St. Chicago 3	RA6-2434
Mass	Combustion Engineering, Inc.	80 Federal St. Boston 10	HA6-6650
NC	Combustion Engineering, Inc.	222 S Church St. Charlotte 2	ED3-0141
Ohio	Combustion Engineering, Inc.	55 Public Sq. Cleveland 13	SU1-7470
Ohio	Combustion Engineering, Inc.	617 Vine St. Cincinnati 2	CH1-6735
Pa	Combustion Engineering, Inc.	1 Gateway Center, Pittsburgh 22	AT1-1510
Wash	Combustion Engineering, Inc.	Skinner Bldg. Seattle 1	MA4-5218
	COMMERCIAL FILTERS CORP.	**2 Main St. Melrose 76, Mass**	**DA6-7000**
Cal	Montgomery Brothers, Inc.	1053 S Olive St. Los Angeles 15	RI7-5191
Colo	G. M. Wallace & Co.	324 Denham Bldg. Denver 2	AM6-0386
Ill	Commercial Filters Corp.	5816 W North Ave. Chicago 39	NA2-9050
Md	Tate Engineering, Inc.	516 S Eutaw St. Baltimore 1	LE9-0787
Mo	Van Devanter Engineering Co.	2207 Pine St. St. Louis 3	GE6-1800
NJ	Commercial Filters Corp.	663 Grand Ave. Ridgefield	LO4-9459
NY	Filtration Unlimited	1660 Kenmore Ave. Buffalo 23	VI4468
NY	Shako, Inc.	Box 986, Latham	ST5-8597
Ohio	Telco, Inc.	4080 Superior Ave. Cleveland 3	EN1-8200
Ohio	The R. P. Findlow Co.	7919 Blue Ash Ave. Cincinnati 36	SY1-2121
Pa	Oil Products Co.	28 & Smallman Sts. Pittsburgh 22	AT1-4341
Pa	J. V. Calhoun Co.	340 Montgomery Ave. Bala-Cynwyd	GR3-4477
	COMMONWEALTH ASSOCIATES, INC.	**209 E Washington Ave. Jackson, Mich**	**ST4-6111**
	COMMUNICATION ACCESSORIES CO.	**Lee's Summit, Mo**	**BR1-1706**
	COMPONENTS CORP. NUCLEAR INSTRUMENT DIV.	**106 Main St. Denville, NJ**	**DA7-0296**
Cal	Autodyne Engineering Co.	607 Market St. San Francisco 5	SU1-5222
Colo	F. W. Gates Co.	200 S Main St. Salt Lake City 1, Utah	EL9-1101
Idah	F. W. Gates Co.	200 S Main St. Salt Lake City 1	EL9-1101
Kan	Associated Industries, Inc.	455 S Washington, Wichita 2	HO4-0391
Mo	Associated Industries, Inc.	455 S Washington, Wichita 2, Kan	HO4-0391
NM	F. W. Gates Co.	122 Harvard Dr. SE, Albuquerque	CH3-8010
NY	F. F. Sylvester Associates	649 Morris Ave. Springfield, NJ	DR6-3324
Utah	F. W. Gates Co.	200 S Main St. Salt Lake City 1	EL9-1101
	COMPUTER CONTROL CO., INC.	**983 Concord St. Framingham, Mass**	**TR5-8185**
Cal	Computer Control Co. Inc.	2251 Barry Ave. Los Angeles 64	GR8-0481
Colo	Kelly Enterprises	336 E 4th St. Loveland	NO7-1376
Md	L. G. White & Co.	880 Bonifant St. Silver Spring	JU5-3111
Mich	Dayton Associates	15332 Kennebec, Southgate	AV5-3125
NJ	Instrumentation Sales Co.	20 Jerome Ave. Glen Rock	GI5-5210
NC	L. G. White & Co. Inc.	Box 2356, Winston-Salem	PA5-3612
Ohio	Dayton Associates	Talbott Tower, Dayton 2	BA3-9621
Ohio	Dayton Associates	3017 Snow Rd. Cleveland 34	TU6-3525
Pa	L. G. White & Co. Inc.	108 Forrest Ave. Narberth	MO4-6505
Pa	H. E. Ransford Co.	5400 Clairton Blvd. Pittsburgh	TU4-3425
Tex	D. Champion Co.	1112 Norwood Dr. Hurst	AT4-1414
	COMPUTER EQUIPMENT CORP.	**1931 Pontius Ave. LA 25, Cal**	**GR8-0464**
	COMPUTER MEASUREMENTS CO.	**12970 Bradley Ave. Sylmar, Cal**	
Cal	Detectron Agency	7435 Canoga Ave. Canoga Park	
Ill	Electronic Aides	1106 W Lawrence Ave. Chicago 40	
NY	Walker's Minerals	799 Lexington Ave. New York	
NY	Ward's Natural Science Est. Inc.	Box 24, Beechwood Sta. Rochester	
For	Frazar & Hansen	301 Clay St. San Francisco, Cal	
	COMPUTER SYSTEMS INC.	**Colver Rd. Monmouth Junction, NJ**	**DA7-2251**
Cal	E. G. Khougas	4525 Sherman Oaks Ave.	ST8-5561
Mich	B. Z. Rubin Co.	16130 Meyers Rd. Detroit	UN4-4958
Okla	P. King Co.	826 N Fulton, Tulsa 15	TE6-2501
Tex	Daytronics, Inc.	3333 W Alabama, Houston	JA4-6461
Jap	Nichimen Co. Ltd.	Muro-Machi, Nihonbashi, Box 1136, Tokyo	
Neth	L.R.C.A.	Paradyseur, 92 Voorburg, Holl	
	COMPUTING DEVICES OF CANADA	**Box 508, Ottawa, Ont. Can**	**TA8-2711**
Can	Computing Device of Can	164 Eglinton Ave. E. Toronto 12	HU8-2452
Can	Computing Device of Can	2170 Crescent St. Montreal, P.Q.	VI5-9982
	CONDENSER SERVICE & ENGRG CO. INC	**150 Observer Hwy. Hoboken, NJ**	**OL9-4425**
Cal	Ensco Corp.	768 Brannan St. San Francisco 3	UN1-3021
Conn	Calmar Industrial Associates	25 George St. Bristol	LU3-1157
Iowa	J. E. Johansen	2324 N 48th St. Lincoln 8, Neb	LI6-2346
La	Wilson-Toler & Co.	4101 San Jacinto St. Houston 4, Tex	JA3-4169
Mich	J. D. Rupert Co.	Box 112, Kalamazoo	FI4-4992
Neb	J. E. Johansen	2324 N 48th St. Lincoln 8	LI6-2346
Ohio	M. K. Einstein, Jr. & Co.	3280 Ingleside Rd. Cleveland 22	WA1-8850
Tex	Wilson-Toler & Co.	4101 San Jacinto St. Houston 4	JA3-4169
PR	H. V. Grosco Co.	Box 45, San Juan	
	CONNEAUT RUBBER & PLASTIC CO. DIV., U.S. STONEWARE CO.	**Box 621, Conneaut, Ohio**	**51-961**
Del	D. A. Halligan	301 Ashbourne Rd. Claymont	SY8-2597
Ill	G. W. Hoffman	1224 Gilbert Ave. Downers Grove	WO8-4347
Ind	R. A. Greif	111 S Ash St. Celina, Ohio	2161
Mich	Hammond-Hayes & Co.	1034 N Washington St. Lansing 6	IV9-9311
NY	J. C. Clark	276 Edgewood Ave. Kenmore 23	UN1-5563
Ohio	Ohio Industrial Representatives Co.	306 Center Ridge Rd. Cleveland 16	ED1-9559
Ohio	R. A. Greif	111 S Ash St. Celina	2161
	CONNECTICUT HARD RUBBER CO.	**New Haven 9, Conn**	**SP7-3631**
Cal	A. B. Boyd Co.	163 E 14th St. Los Angeles 21	RI9-6361
Ky	Gen. Rubber & Supply Co. Inc.	3118 S Preston St. Louisville 13	ME5-2606
Md	Robins Rubber Div.	234 Key Hwy. Baltimore 30	SA7-6275
Mass	Greene Rubber Co.	Bwy at 6th St. Cambridge	KI7-7655
Minn	D. A. Schultz Co.	801 SE 8 St. Minneapolis	FE9-7701
Mo	Hanna Rubber Co.	1512 Main St. Kansas City 8	HA1-9600
NY	Mercer Rubber Corp.	66 Reade St. New York 7	BA7-0140
NC	Southern Rubber Co.	360 Ashe St. Greensboro	BR2-4567
Ohio	Cinn. Gasket, Packing & Mfg. Co.	1507 Elm St. Cincinnati	PA1-5420
Pa	Shields Rubber Corp.	137 Ft. Pitt Blvd. Pittsburgh 1	AT1-8200
Tex	Amer. Packing & Gasket Co.	6039 Armour Dr. Houston	WA8-9607
Wash	A. B. Boyd Co.	418 Boren N, Seattle 9	MA2-6545
	CONOFLOW CORP.	**2100 Arch St. Philadelphia 3, Pa**	**LO7-7580**
Cal	J. M. Vossler & Co.	4914 Lankershim Blvd. North Hollywood	TR7-0611
Ill	J. R. Simpson & Co.	1210 S 17th Ave. Maywood	FI5-1613
La	Hudson-Rush Co.	819 Kings Hwy. Shreveport	UN5-8441
Mass	King-Gage Engineering Co.	33 Trowbridge St. Newton Center 55	BI4-7200
NY	Conoflow Corp.	750 3rd Ave. New York 17	MU2-6280
NC	Brown & Morrison	Box 4207, Charlotte	ED3-0774
Ohio	Myers & Henley, Inc.	427 Temple Bar Bldg. Cincinnati 2	DU1-7783
Okla	E. Graves Co.	111 E 14th St. Tulsa 19	LU4-4708
Tenn	Engineered Instrument Sales Co.	Box 9947, Memphis 12	FA3-1275
Tex	R. Mack Goble Co.	2722 Sunset Blvd. Houston 5	MO4-1922
Wash	Branom & Leeland Instrument Co.	2137 2nd Ave, Seattle 1	MA2-7320
	CONRAD INC.	**141 Jefferson St. Holland, Mich**	**EX2-3161**
Cal	E. A. Wright	3848 E Colorado Blvd. Pasadena	MU1-0181
Colo	Parrish Electronics	2130 S Albion, Denver 22	SK6-3455
DC	Conrad Inc.	Washington, DC	DI7-2696
Fla	W. B. Wimberly, R. F. Pond	532 S Fort Harrison, Clearwater	3-7072
Ill	W. Nostrand	5111 W Diversey St. Chicago	MU7-3300
Mo	W. Hull	828 Thronberry, St. Louis	TA2-2241
NY	R. M. Alden	21 Park Pl. New York City	BA7-7523

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Tex	W. N. Wright	5738 N Central Expwy. Dallas	TA4-2571
Wash	Refrigeration Engineering Co.	1718 Broadway, Seattle 22	EA3-8940
Can	D. P. Beechey	3212 Weston Rd. Weston, Ont.	CH4-8051
	CONSOLIDATED CONTROLS CORP.	**14 Durant Ave. Bethel, Conn**	**PI3-6721**
Cal	Consolidated Controls Corp.	750 S Isis Ave. Inglewood	OR1-7589
Cal	Bellflove Co.	420 Market St. San Francisco	YU2-3713
Colo	Rocket Components Co.	2950 S Fox St. Englewood	SU9-2548
DC	Argus Aero Engineering Co.	Box 1105, Langley Park, Md	HE4-1747
Ill	Lightner Associates	6322 N Milwaukee Ave. Chicago	SP4-1500
Pa	Lowry-Dietrich Co.	703 Clairton Blvd. Pittsburgh 36	WA1-2959
Tex	Associated Air Services	Box 13185, Dallas	FL2-2063
Wash	B. C. Porter Co.	1209 Poplar Pl. Seattle 44	EA3-8330
	CONSOLIDATED ELECTRODYNAMICS CORP.	**360 Sierra Madre Villa, Pasadena, Cal**	**MU1-8421**
	CONSOLIDATED ENGINES & MACHY. CO. LTD.	**5645 Pare St. Mt. Royal, Montreal, Can**	**RE1-7341**
Can	Con. Eng. & Machy. Co. Ltd.	14th & Birmingham Sts. New Toronto, Ont	
NB	Con. Eng. & Machy. Co. Ltd.	Box 848, Moncton, New Brunswick	
	CONSOLIDATED MINING & SMELTING CO. OF CANADA LTD.	**215 St. James St. W, Montreal, Que. Can.**	**AV8-3103**
Eng	H. Gardner & Co. Ltd.	Leadenhall Ave. London, E.C. 3	
Jap	New Metals & Chemicals Corp.	Box Central 565, Tokyo	
	CONSOLIDATED REACTIVE METALS INC.	**115 Hoyt St. Mamaroneck, NY**	**OW8-2300**
	CONSOLIDATED VACUUM CORP.	**1775 Mt. Read Blvd. Rochester, NY**	**GL3-7972**
Cal	Consolidated Vacuum Corp.	4015 Fabian Way, Palo Alto	DA1-3151
Cal	Consolidated Vacuum Corp.	4348 Van Nuys Blvd. Sherman Oaks	ST8-7300
Ga	Consolidated Vacuum Corp.	3272 Peachtree Rd. NE, Atlanta 5	CE3-1171
Ill	Consolidated Vacuum Corp.	2548 W Peterson Ave. Chicago 45	RO1-1329
Mass	Consolidated Vacuum Corp.	31 St. James Ave. Boston 16	HA6-0772
NJ	Consolidated Vacuum Corp.	345 Boulevard, Hasbrouck Hts.	AT8-9540
NJ	Consolidated Vacuum Corp.	9 Tanner St. Haddonfield	HA8-4666
NM	Consolidated Vacuum Corp.	301 Washington SE, Albuquerque	AM8-9333
Ohio	Consolidated Vacuum Corp.	3770 N High St. Columbus 14	AM7-7834
Va	Consolidated Vacuum Corp.	2030 16th St. N, Arlington 1	JA5-1442
	CONSOLIDATED WESTERN STEEL DIV. U.S. STEEL CORP.	**Box 2015, Torr Ann, LA 54, Cal**	**RA3-7711**
Ariz	CWSD	600 W Grant St. Phoenix	AL8-1557
Cal	CWSD	2421 California Ave. Fresno	AM4-4741
Cal	CWSD	1215-30th St. Bakersfield	FA3-7803
Cal	CWSD	120 Montgomery St. San Francisco	SU1-2500
Utah	CWSD	Box 96, Salt Lake City	DA2-0491
Wash	CWSD	1729-30 Exchange Bldg. Seattle	MA3-6868
	CONTINENTAL AIR FILTERS, INC.	**Box 1647, Louisville 1, Ky**	**ME7-4795**
Cal	Sanford Mechanical Eqpt. Co.	Box 2856, Rockridge Sta. Oakland	OL8-5020
DC	I. M. Day Co.	723 Mills Bldg. Washington 6	ST3-2982
Fla	J. Middleton & Co.	Box 34-1219, Coral Gables	HI4-6237
Ill	Barr & O'Dwyer	2550 W Peterson Ave. Chicago	RO1-3132
Ky	R. L. Craig Co. Inc.	195 Colony Way, Louisville	TW6-6464
Mass	L. F. Luchner	479 Statler Bldg. Boston	HA6-5468
NM	Herlin Engineering Co.	Box 1771, Albuquerque	CH7-2482
NY	A. F. Hinrichsen, Inc.	50 Church St, New York	BE3-0020
Pa	Mutimer Co.	Box 228, Jenkintown	TU7-2606
Tenn	O. M. Jones Co.	Box 38, Johnson City	WA6-5104
SC	Hoffman & Hoffman, Inc.	Box 242, Columbia	AL3-7666
Wash	G. E. Mead Co.	309 Cedar St. Seattle	MA3-0255
	CONTINENTAL CONNECTOR CORP.	**34-63 56th St. Woodside 77, NY**	**TW9-4422**
Ariz	F. Schoeffler Associates	5822 S Wilshire Dr. Tucson	AX8-6173
Cal	DeJur-Amsco Corp.	11650 W Olympic Blvd. Los Angeles	BR2-0931
Ill	DeJur-Amsco Corp.	420 N Michigan Ave. Chicago	WH3-0368
Mich	Burcaw-Cowan & Co.	22128 Grand River Ave. Detroit	KE3-7700
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis 30	PA6-2233
NY	DeJur-Amsco Corp.	45-01 Northern Blvd. Long Island City	RA1-8000
NY	DeJur-Amsco Corp.	237 E Genesee Ave. Syracuse	GR1-0987
NC	B. Henry Associates	2722 Normandy Rd. Charlotte	FR5-8958
Pa	E. Brautigam	42 Trellis Rd. Levittown	WI9-1733
Wash	R. H. Cooley & Associates	101 Jones Bldg. Seattle	MU2-4567
Wis	W. Thompson	2523 E Armour Ave. Milwaukee	HU1-0766
	CONTINENTAL-DIAMOND FIBRE CORP.	**Newark, Del**	**EM8-8531**
Cal	C-D F Corp.	3050 E 11th St. Los Angeles 23	AN8-1371
Colo	C-D F Corp.	260 Denver Club Bldg. Denver 2	AC2-2236
Ill	C-D F Corp.	1518 N Harlem Ave. Oak Park	EU3-5270
Ind	C-D F Corp.	709 E 38th St. Indianapolis 5	WA5-9803
Mass	C-D F Corp.	1245 Hancock St. Quincy 69	GR2-2150
Mich	C-D F Corp.	201 Officenter Bldg. Detroit 35	BR3-0447
NY	C-D F Corp.	51 E 42nd St. New York 17	OX7-9617
Ohio	C-D F Corp.	1621 Superior Bldg. Cleveland 14	CH1-5220
Pa	C-D F Corp.	Bridgeport	BR5-0800
SC	C-D F Corp.	Box 291, Spartanburg	SP3-6397
Tex	C-D F Corp.	1502 S Good-Latimer Expwy. Dallas 10	HA8-1502
Wis	C-D F Corp.	6108 W Lincoln Ave. Milwaukee 19	LI1-7660
	CONTINENTAL SENSING, INC.	**1950 N Roby St. Melrose Park, Ill**	**MU1-1950**
Cal	Eastman Pacific Co.	5840 Alhambra Ave. Los Angeles 32	CA8-1351
Mass	Andruss-Peskin Co.	Box 394, Natick	OL3-2919
NJ	Tek-Sel, Inc.	54 Rt. 17, Paramus	HU9-7310
Ohio	Elliott-Sarles Co.	22473 Concord Dr. Cleveland 16	ED1-8911
Pa	H. T. Sorensen	425 Charles Ln. Wynnewood	MI2-7968
Va	A. B. Kreger, Jr.	Box 1971, Roanoke	DI2-1264
Wash	M. J. Poggi	Box 587, Bellevue	GL4-5649
	CONTROL A DIV. OF MAGNETICS, INC.	**Box 391, Butler, Pa**	**BU7-3787**
Cal	Control, A Div. of Magnetics, Inc.	3841 E Colo. Blvd. Pasadena	MU1-7487
Conn	Control, A Div. of Magnetics, Inc.	15 Elm Pl. New Canaan	WO6-1583
Ill	Withers, Ropek & Cahill, Inc.	5439 W Division St. Chicago 51	AU7-7293
Ind	Rockwell Engineering Co.	2121 E 45th St. Indianapolis	CL1-9453
Mass	Control, A Div. of Magnetics, Inc.	Tupelo Rd. Holly Ridges, Marshfield	PR6-2460
Mich	A. R. Satullo Co.	4514 N Woodward Ave. Royal Oak	JO6-2375
NJ	Control, A Div. of Magnetics, Inc.	172 Dahlia Terrace, N Plainfield	PL7-0182
NY	Control, A Div. of Magnetics, Inc.	15 Elm Pl. New Canaan, Conn	WO6-1583
NY	R. F. Lamb Co.	1807 Elmwood Ave. Buffalo	BE3757
Ohio	Martin-Rettger, Inc.	11955 Shaker Blvd. Cleveland 20	SW1-8787
Pa	W. H. Bollinger	Box 8089, Pittsburgh 16	LO1-2340
Tex	W. E. Brice	303 Bastrop St. Houston 3	CA2-7321
	CONTROL DATA CORP. COMPUTER DIV.	**501 Park Ave. Hopkins 15, Minn**	**FE9-8411**
	CONTROL PRODUCTS, INC.	**280 Ridgedale Ave. E Hanover, NJ**	**TU7-5000**
Cal	Milform Engineering Co.	167 S Vermont, Los Angeles 4	DU7-1347
Conn	F. Kosowicz	2 Madsen Rd. W Hartford	AD3-7883
Ga	Lynd Walkling	Box 3045, Atlanta 17	DR3-8348
Ill	Felleisen Associates	5231 W Montrose Ave. Chicago	SP7-1060
Md	R. B. Barnhill & Associates	19 W Penn Ave. Towson, Baltimore 4	VA5-3451
Mich	E. Liddle	18925 Grand River Ave. Detroit 23	VE7-5310
NJ	J. P. Dearie & Co.	Box 66, Mountain Lakes	
Ohio	R. F. Hardy	1501 Hulman Bldg. Dayton 2	BA2-1265
Tex	Thomas Engineering Service	2520 Oaklawn Ave. Dallas 19	LA6-8741
Wash	D. Smith Sales Co.	2320 N 45th St. Seattle	ME3-3160
Can	Aeromotive Engr. Prod. Ltd.	147 Hymus Blvd. Pte. Claire, Que	OX7-8010
Can	Aeromotive Engr. Prod. Ltd.	1912 Avenue Rd. Toronto 12	RU3-4288
	CONTROLLED ATMOSPHERE ENCLOSURES MFG. CO.	**1061 E 8th St. Jacksonville 6, Fla**	**EL4-5604**
Cal	C. W. Reed Co.	5959 S Hoover, Los Angeles 44	PL8-2221
	CONTROLS CO. OF AMERICA	**9555 Serena Ave. Schiller Park, Ill**	**HA5-9000**
	CONTROLS FOR RADIATION INC.	**130 Alewife Brook Pkwy, Cambridge 40, Mass**	**UN4-8290**
Cal	C. Fowler Co.	499 Hamilton Ave. Palo Alto	DA1-1810
Colo	Howell Sales, Inc.	4673 Dudley, Arvada	AC2-6862
NY	Scientific Systems Sales Corp.	Box 3, Bayside	BA5-0929
Ohio	R. W. Lichtinger Co.	2472 Edgerton Rd. Cleveland 18	EV2-8210
Tenn	Ridge Instrument Co.	162 Tallemeda Rd. Oak Ridge	5-3333
Wash	R. Johnston Co.	1011 E 69th St. Seattle 16	LA4-5170
Eng	L. E. Simmonds, Ltd.	5 Byron Rd. Harrow, Middlesex	
Fr	Intertechnique	81 Rue Escudier, Boulogne-Billancourt, Paris	
	CONVAIR, DIV. GEN. DYNAMICS CORP.	**Box 748 Fort Worth, Texas**	**PE8-7211**
	COOK ELECTRIC CO. NUCLEDYNE DIV.	**3412 River Rd. Franklin Park, Ill**	**GL1-0990**
	COOK TECHNOLOGICAL CENTER DIV. COOK ELECTRIC CO.	**6401 Oakton St. Morton Grove, Ill.**	**NI7-6600**
Cal	Cook Electric Co.	8170 Beverly Blvd. Los Angeles	OL3-5340
DC	Cook Electric Co.	1000 16th St. NW, Washington	DI7-4700
Mass	H. C. Alberts	10 Melch Rd. Lynnfield Centre	ED4-4838
Mich	A. W. Crockett	34209 Banbury Rd. Farmington	MA6-1113
NY	J. A. Milbouer	48 Chester St. E Northport	FO8-9672
NY	Cook Electric Co.	225 N Washington St. Rome	FF6-4660
Ohio	Cook Electric Co.	1482 Stanley Ave. Dayton	BA8-5197
	COOPER ALLOY CORP.	**Bloy St.- Ramsey Av. Hillside, NJ**	**MU8-4120**
Ala	C. I. Crais Co. Inc.	Box 5994, Birmingham	
Cal	Duhig & Co. Inc.	5105 Telegraph Rd. Los Angeles	
Conn	R. J. Newsom	Shore Rd. Old Lyme	
Fla	The J. Britt Co.	639 W Forsyth St. Jacksonville	
Ill	J. Ziegler	360 Woodstock Ave. Glen Ellyn	
Ind	H. D. Stuber	5425 N College Ave. Indianapolis	
Mich	W. G. Boales & Associates	1150 W Baltimore Ave. Detroit	
NJ	C. L. Heintz Co.	809 Edgemoor Ter. Haddonfield	
NJ	Dale Piping Co.	7550 Main St. Buffalo	
Ohio	G. W. Garland	700 Paige Ave. Warren	
Pa	H. G. Haucke	113 E Poplar St. Lebanon	
Tex	E. E. Graham & Co.	3701 Navigation Blvd. Houston	
	COOPER-BESSEMER CORP.	**Mount Vernon, Ohio**	**EX3-8121**
Cal	Cooper-Bessemer Corp.	1940 Lovelace Ave. Los Angeles 18	RI9-7241
DC	Cooper-Bessemer Corp.	1611 K St. NW, Washington 6	NA8-8310
Ill	Cooper-Bessemer Corp.	122 S Michigan Ave. Chicago 3	WE9-3806
NY	Cooper-Bessemer Corp.	545 5th Ave. New York 36	JU6-2730
Tex	Cooper-Bessemer Corp.	1318 Fidelity Union Life Bldg. Dallas	RE7-2595
	COOPER CO., D.C.	**1467 S Michigan Ave. Chicago, Ill**	**HA7-3046**
	COOPER METALLURGICAL ASSOC.	**Box 3991, Cleveland 20, Ohio**	**SW1-6160**
	COOPER ROLLER BEARINGS CO. LTD.	**Wisbech Rd. King's Lynn, Norfolk, Eng**	
	COOPER-TRENT BLUEPRINT & MICROFILM CORP.	**2701 Wilson Blvd. Arlington, Va**	**JA5-1900**

COORS PORCELAIN CO. ..... 609 9th St. Golden, Colo

Cal	W. Smith	Palo Alto	EM6-8129
Ill	J. Marozeck	Roselle	FR2-7100
NY	J. McManus	Manhasset	MA7-2781
NY	W. McDonald	Schenectady	FR4-0663
Ohio	D. Dobbins	Canton	HY4-1285
Tex	K. Lundy	Dallas	RI1-5225
Tex	W. Ramsey	Bellaire	UN4-6369

COPES-VULCAN DIV. BLAW-KNOX CO. 939 W 26 St. Erie 4, Pa

Cal	J. Morley & Co.	1001 Tennessee St. San Francisco 7	AT2-0677
Cal	G. Hallen Sales Co.	2650 Cherry Ave. Long Beach 6	NE6-0631
DC	Meleney Engineering Co.	828 Mills Bldg. Washington 6	DI7-6329
Fla	P. Flanagan, Inc.	3703 Granada St. Tampa 9	64-1131
Ill	Cochrane Engineering Corp.	309 W Jackson Blvd. Chicago	HA7-0120
Mass	Cochrane Steam Specialty Co.	55 Batterymarch St. Boston	HA6-6447
NY	The Kinick Co.	144 E 44th St. New York 17	MU7-5020
NY	H. A. Schlieder	520 Robineau Rd. Syracuse 7	GR6-9752
Pa	Herr-Harris Co.	3400 Forbes St. Pittsburgh 13	MU3-3636
Pa	The Kinick Co.	1906 Packard Bldg. Philadelphia 2	RI6-4427
Utah	C. H. Spencer & Co.	210 W 3300 S, Salt Lake City 10	IN6-8683
Wis	Cochrane Engineering Corp.	1733 W Wisconsin Ave. Milwaukee 3	WE3-2070

COPPUS ENG. CORP. ..... 334 Park Ave. Worcester, Mass PL2-5638

Ala	J. W. Eshelman & Co. Inc.	Drawer 5906, Birmingham 9	
Cal	King-Knight Co.	360 Jefferson St. San Francisco	
Ga	E. L. Shuff & Associates, Inc.	Box 12017, Northside Sta. Atlanta	
Ill	Gen Meters & Controls Co.	205 W Wacker Dr. Chicago	
La	J. H. Carter Co. Inc.	Box 427, Metairie	
Mass	W. B. Wickersham & Co.	1449 Washington St. W Newton	
NY	M. W. Black & Co. Inc.	41 E 42nd St. New York	
Ohio	A. E. Ehrke & Co.	5171 Mayfield Rd. Cleveland	
Okla	Engineering Sales Co.	409 N Cincinnati, Tulsa	
Pa	E. Elliot & Co.	560 N 16th St. Philadelphia	
Pa	Bradshaw & Co.	311 Ross St. Pittsburgh	
Tex	Werlla & Co.	Box 22145, Houston 27	

CORLEY CO., INC. ..... 685 Myrtle Ave. Boonton, NJ

Cal	Industrial Controls, Inc.	Box 922, San Leandro
Cal	G. Moore & Co.	310 N Normandie Ave. Los Angeles
Md	Machinery & Equipment Co.	1012 Cathedral St. Baltimore 1
Mass	A. I. Barry	7 McKinnon Ave. Milton 86
NJ	Chemical Pump & Equipment Co.	1 Exchange Pl. Jersey City 2
Ohio	The H. H. Hyland Co.	3228 Harrison Ave. Cincinnati 11
Ohio	Telco, Inc.	4030 Superior Ave. Cleveland 3
Pa	Harris Pump & Equipment Co.	Brady & Sidney Sts. Pittsburgh 3
Pa	The Sellers Co.	396 E Church Rd. King of Prussia
Tex	R. B. Stockdale Assoc. Inc.	Box 99, Houston 1
Va	Tidewater Supply Co. Inc.	501-535 W 24th St. Norfolk 1
W Va	Virginian Electric Inc.	Box 2833, Charleston 30

CORNELIUS CO. AERO DIV. ... 550 39 Ave, NE, Minneapolis 21, Minn SUB-8611

CORNELL-DUBILIER ELECTRONICS DIV. FED. PACIFIC ELEC. CO. 1605 Rodney French Blvd. New Bedford, Mass

CORNELL-DUBILIER ELECTRONICS DIV. FED. PAC. ELEC. CO. ..... 333 Hamilton Blvd. S Plainfield, NJ PL6-9000

Cal	Cornell-Dubilier	4144 Glencoe Ave. Venice	UP0-6681
Ill	Cornell-Dubilier	5247 W Diversey Ave. Chicago	BE7-6842
Ind	Cornell-Dubilier	2900 Columbus Ave. Indianapolis	WA6-2442
Mass	Cornell-Dubilier	921 Providence Hwy. Norwood	NO7-5333
NY	Cornell-Dubilier	847 North Ave. E Syracuse	HO3-9237
NC	Cornell-Dubilier	2652 Dalrymple St. Sanford	SP4-7811
NC	Cornell-Dubilier	118 E Jones St. Fuquay Springs	FU406
Ohio	Cornell-Dubilier	1832 Wendell Ave. Lima	LI9-4378
Ohio	Cornell-Dubilier	2801 Far Hills Ave. Dayton 19	AX8-7224
Pa	Cornell-Dubilier	Box 1092, York	TO3-3865

CORNING GLASS WORKS ..... Corning, NY CO2-5011

Cal	Corning Glass Works	420 S Euclid Ave. Anaheim	PR2-5400
Ill	Corning Glass Works	1470 Merchandise Mart, Chicago 54	DE7-6600
NY	Corning Glass Works	717 5th Ave. New York 22	PL2-1100
Tex	Corning Glass Works	Box 22456, Houston 27	MO6-0384

CORROSITE CORP. ..... 64 S 6th St. Brooklyn 11, NY

COSMIC, INC. ..... 1028 Connecticut Ave. Washington 6, DC

COSMIC RADIATION LABS., INC 1645 Montauk Hwy. Bellport, NY AT6-9696

COSSOR INSTRUMENTS LTD. .. Highbury Gr. London N5, Eng

COUCH ORDNANCE INC., RELAY DIV. ..... 3 Arlington St. N Quincy 71, Mass CY8-4147

Ala	R. Attaway Co.	912 Box Wallace Ave. Huntsville	534-2811
Ariz	G. Young & Co.	1400 N 32nd St. Phoenix	BR5-7526
Cal	G. Young & Co.	3775 S Broadway, Los Angeles	AD1-4337
Conn	Connecticut Valley Enterprises	Box 188, Essex	SO7-1128
Fla	R. Attaway Co.	711 Magnolia Ave. Orlando	GA4-9983
Ill	Airborne Sales	6835 W Higgins Ave. Chicago	RO3-1844
Minn	Hamilton & Bayle Assoc. Inc.	3359 Republic Ave. Minneapolis	WE9-7891
Mo	Pem Sales Co.	8618 Brookshire Ln. University City	WY1-1539
Ohio	R. R. Stone & Assoc.	1925 Lee Rd. Cleveland Hts.	ER1-4484
Pa	Technicraft	6222 Ridge Ave. Philadelphia	IV2-2323

Tex	Thomson Engineering Service	2520 Oak Lawn, Dallas 19	LA6-8741
Wash	G. Young & Co.	1928 1st Ave. S Seattle	MA3-0123

CRAMER CONTROLS CORP. .... Centerbrook, Conn ES7-8255

Cal	Cramer Controls Corp.	13113 Ventura Blvd. Studio City	TR3-4865
Ill	Cramer Controls Corp.	6120 W North Ave. Chicago 39	MI7-7502
Mass	Cramer Controls Corp.	30 Park Ave. Arlington	MI8-1266
NY	Cramer Controls Corp.	35 Liberty Rd. Bergenfield, NJ	DU4-8585

CRANE CO. ..... 4100 S Kedzie Ave. Chicago 32, Ill LA3-2900

Cal	C. A. Lathrop	3540 Wilshire Blvd. Los Angeles 5	DU7-1271
Ga	R. E. Settle, Jr.	1372 Peachtree St. NE, Atlanta 9	TR2-4711
Ill	W. A. Burbine	4100 S Kedzie Ave. Chicago	LA3-2900
NY	R. W. Marshall	101 Park Ave. New York 17	OR9-2090
Tex	R. G. Hunter	512 S Akard St. Dallas 2	RI8-7871

CRANE PACKING CO. ..... 6400 Oakton St. Morton Grove, Ill

CRAWFORD FITTING CO. ..... 844 E 140 St. Cleveland 10, Ohio LI1-5533

Ala	Franklin Valve & Fitting Co.	401 Fulton Ave. SW, Birmingham 11	ST1-2121
Cal	W. D. Wilson Co.	1118 Mission St. S Pasadena	MU2-3327
Fla	Patrick Valve & Fitting Co.	Box 8501, Jacksonville	RA4-0628
Ill	Hinsdale Valve & Fitting Co.	10341 Southwest Hwy. Chicago Ridge	GA5-6440
La	Capital Valve & Fitting Co. Inc.	10765 Florida Blvd. Baton Rouge	WA4-2810
NJ	R. S. Crum & Co.	1167 Globe Ave. Mountainside	AD2-4444
NY	C. A. Pearson Co. Inc.	177 Richfield Rd. Buffalo 21	SP9750
Ohio	Abbott Valve & Fitting Co.	1615 E 25th St. Cleveland 14	MA1-7218
Okla	B. McKalip Co. Inc.	5702 E Admiral Blvd. Tulsa	TE5-1561
Pa	Fogleman Co. Inc.	3849 Willow Ave. Pittsburg 34	LE1-3249
Tex	Texas Valve & Fitting Co.	Box 926, Irving	BL3-0710
Wash	Automation Products	2800 15th Ave. W. Seattle 99	AT3-2558

CRAWFORD FITTINGS (CANADA) LTD. 605 Kent Ave. Niagara Falls, Ont., Can

Can	Niagara Valve & Fittings, Ltd.	15 Fairview Ave. St. Catherines, Ont	WE5-6589
Can	Niagara Valve & Fittings, Ltd.	48 Belview Ave. Hamilton, Ont	LI4-4654
Can	Cis-Can Chemical & Ind Sales, Ltd.	7221A 104 St. Edmonton, Alb	GE9-2935
Can	Laurentian Valve & Fittings, Ltd.	4060 Mackenzie St. Montreal 26, Que	RE1-5257

CRESCENT ENGRG & RESEARCH CO. 5440 N Peck Rd. El Monte, Cal GI4-6141

Colo	Price Engineering Sales, Inc.	Box 421, Littleton	PY4-6367
Ill	C. Rossi Sales Co.	2429 N 73rd Ave. Chicago 35	GL6-4710
Mich	H. DeBrabant	522 S Wilson, Royal Oak	LI8-4190
Mo	Thomson Engineering	8230 Forsyth Blvd. St. Louis	PA7-7705
NJ	Brierley, Davis Co.	332 Springfield Ave. Summit	CR3-7300
Ohio	Custom Engineering	2975 Far Hills, Dayton 19	AX8-5246
Tex	Thomson Engineering	2520 Oak Lawn Ave. Dallas 19	LA6-8741
Tex	R. A. Mayes Co.	Box 3633, El Paso	LY8-2982
Wash	Avionics Liaison	Boeing Field, Seattle 8	PA3-7602
Can	Electrodesign	2124 St. Lawrence Blvd. Montreal	DU9-5914
For	S. Ginsbury	8 W 40th St. New York 18	LO4-7585

CROLL-REYNOLDS ENGINEERING CO. 1122 Main St. Stamford, Conn

CROSBY-TELETRONICS CORP. 54 Kinkel St, Westbury, NY ED3-1027

Cal	Fieldtec	Box 325, Tustin	
Cal	W. K. Geist Co.	3177 Glendale Blvd. Los Angeles 39	NO5-1195
Cal	Vacuum Apparatus	Box 875, Palo Alto	DA1-0070
DC	Brimberg Associates	221 Investment Bldg. Washington 5	DI7-0990
Mass	R. F. Mac Dowell Co. Inc.	Box 102, Melrose 76	NO5-8893
NJ	G. F. Landfear Enterprises	Box 68, Nutley 10	NO7-2900
NY	Rocke International Corp.	13 E 40th St. New York 16	MU9-0200
Wash	J. K. Dooley Co. Inc.	3215 Western Ave. Seattle	AT4-8313

CROSBY VALVE & GAGE CO. (ASHTON VALVE) 4043 Kendrick St. Wrentham, Mass EV4-3121

Cal	Crosby Valve & Gage Co. Inc.	5348 Jillson St. Los Angeles	AN8-5109
Cal	Trident Engineering Co.	16 Beale St. San Francisco	YO6-6558
Colo	Scott Equipment Co.	4201 Jackson St. Denver	DE3-4289
Ga	W. K. Stallings Co.	3120 Maple Dr. NE, Atlanta	CE7-0600
Ill	Crosby Valve & Gage Co.	230 S State St. Chicago	HA7-7033
Mich	H. A. Reed Co.	19465 James Couzens Hwy. Detroit	VE8-6880
Mo	Economy Equipment Co.	4526 Olive St. St. Louis	FO7-5328
NY	Crosby Valve & Gage Co.	370 Lexington Ave. New York	MU5-0642
Pa	Ives Equipment Corp.	114 Forrest Ave. Narberth	TR7-9505
Tex	W. H. Curtin & Co.	4220 Jefferson Ave. Houston	WA3-1661
Tex	Crosby Valve & Gage Co.	1211 Dragon St. Dallas 7	RI1-4771
Wash	Yost Industrial Sales Co.	5600 14th Ave. NW, Seattle	SU3-1351

CROSS CO., H. ..... 3229 Bergenline Ave. Union City, NJ UN3-1134

CROSS-MALAKER LABORATORIES 191 Mill Ln. Mountainside, NJ AD3-4014

CROSSROADS MARINE DISPOSAL CORP. 26 T Wharf, Boston 10, Mass LA3-3032

CROUSE-HINDS CO. of CANADA LTD. 1160 Birchmount Rd. Scarborough, Tor, Ont PL7-8781

Can	Crouse-Hinds Co. Can. Ltd.	3385 Cavendish Blvd. Montreal, Quebec

CROYDON ENGINEERING CO. LTD. Commerce-Parley Way, Croydon, Surr, Eng CR4125

CRUCIBLE STEEL CO. OF AMERICA Box 2518, Pittsburgh 30, Pa AT1-3800

Cal	L. J. Himelson	6033 E Bandini Blvd. Los Angeles 22	RA3-4821
Cal	K. M. Acton	2050 Bryant St. San Francisco 10	AT2-8011
Ga	A. B. Wells	3400 Malone Dr. Chamblee	GL7-6341

Ill	D. R. Wistar	4501-4531 W Cortland St. Chicago 39	SP2-0300
Mass	B. Reese	Waltham Industrial Center, Waltham	TW4-6100
Mich	W. Jenks	4920 E Nevada Ave, Detroit 34	FO6-4400
Mo	C. A. Cardarelli	8610 Page Blvd. St. Louis 14	HA9-4400
NY	D. F. Hall	Box 648, Mineola	PI1-8500
NY	E. W. Sparkes	Box 682, E Syracuse	HE7-8391
Ohio	F. H. Thoke	31400 Aurora Rd. Cleveland 39	CH8-9400
Pa	E. A. Fleming	408 S Oak Ln. Primos, Del. Co	GR4-1100
Pa	R. J. Rand	Box 4514, Pittsburgh 5	WA2-3602

CRYOGENERATORS, INC. ..... **Ashton, RI** **PA2-2200**

CRYSTAL RESEARCH LABS. INC. 29 Allyn St. Hartford, Conn. **AD2-3061**

CRYSTALS S. A. ..... **Cose Comevin 164, Geneva 2, Switz**

CUBIC CORP. ..... **5575 Kearny Villa Rd. San Diego 11, Cal** **BR7-6780**

CULLIGAN, INC. ..... **1657 Shermer Rd. Northbrook, Ill**

CUMMINS & BARNARD, INC. .... **2058 S Seeto, Ann Arbor, Mich** **NO2-5638**

CUNO ENGINEERING CORP. .... **88 S Vine St, Meriden, Conn** **BE7-5541**

Cal	Cuno Engineering Corp.	475 Huntington Dr. San Marino	MU2-2805
Cal	Cuno Engineering Corp.	723 California Dr. Burlingame	DI2-3537
Ill	Cuno Engineering Corp.	4425 N Sheridan Rd. Chicago	LO1-7093
Ind	J. R. Carlson Co.	5744 Washington Blvd. Indianapolis 20	CL3-2676
Mich	J. N. Fauver Co. Inc.	49 W Hancock Ave. Detroit 1	TE2-4115
NY	Cuno Engineering Corp.	4548 Main St. Buffalo 26	CI4306
NY	King & Shepherd, Inc.	50 Church St. New York 7	CO7-1466
NC	Cuno Engineering Corp.	357 Miller St. SW, Winston-Salem	PA3-8702
Ohio	Cuno Engineering Corp.	Mariemont Center Bldg. Cincinnati 8	BR1-5172
Ohio	Cuno Engineering Corp.	4511 Brookpark Rd. Cleveland 29	ON1-1900
Pa	Cuno Engineering Corp.	121 Coulter Ave. Ardmore	MI2-4041
Pa	Cuno Engineering Corp.	1610 Potomac Ave. Pittsburgh 16	LO1-4400

CURTIS NUCLEAR CORP ..... **1645 W. 135th St. Gardena, Cal.**

Ariz	Westinghouse Elec. Corp. X-Ray Div.	1108 N 21st Ave. Phoenix	AL8-8621
Colo	Technical Equipment Corp.	917 Acoma St. Denver	MA3-0258
Ill	Westinghouse Elec. Corp. X-Ray Div.	2211 W Pershing Rd. Chicago	FR6-2346
Kan	Aviation Electronics, Inc.	1026 N Moxley, Wichita	HO4-5154
Mich	Westinghouse Elec. Corp. X-Ray Div.	5787 Trumbull Ave. Detroit	TR2-7010
Minn	Pengelly X-Ray Co.	6002 Excelsior Blvd. Minneapolis	WE9-7895
Mo	Westinghouse Elec. Corp X-Ray Div.	2709 Warwick Trafficway, Kansas City	VI2-8730
Mo	Dick X-Ray Co.	4000 Olive St. St. Louis	FR1-6626
Neb	Westinghouse Elec. Corp. X-Ray Div.	310 S 24th St. Omaha	HA7544
NJ	National X-Ray Co.	71 S Newman St. Hackensack	HU9-5600
Utah	Westinghouse Elec. Corp. X-Ray Div.	235 W S Temple St. Salt Lake City	EL5-3413
Wash	Westinghouse Elec. Corp. X-Ray Div.	1416 Olive Way, Seattle	EA4-6750

CURTISS-WRIGHT CORP. ELECTRONICS DIV. 35 Market St. East Paterson, NJ **SW1-0100**

Cal	Curtis-Wright Corp.	11031 Van Owen St. North Hollywood	TR7-2151
DC	Curtiss-Wright Corp.	821 15th St. NW, Washington 5	NA8-5804
NM	Curtiss-Wright Corp.	Box 8324, Albuquerque	AM8-8791
Ohio	Curtiss-Wright Corp.	333 W 1st St. Dayton 2	BA4-0373

CURTISS-WRIGHT CORP. METALS PROCESSING DIV. Buffalo 15, NY **BA7770**

Mich	United Steel Supply	20495 Woodingham Ave. Detroit 21	DI1-4825
NY	Talbot Associates	123 E 48nd St. New York	OX7-3882
Ohio	H. F. Davis & Sons	3494 Lee Rd. Shaker Heights 20	SK2-4674
Ohio	S. E. Anning Co.	822 Delta Ave. Cincinnati	EA1-2711

CURTISS-WRIGHT CORP. PRINCETON DIV. Box 110, Princeton, NJ

Cal	Curtiss-Wright, Princeton Div.	7230 Varna St. N Hollywood	PO4-6385
Pa	C. Coombs	129 Poplar Ridge Dr. Pittsburgh 35	SY3-9684

CURTISS-WRIGHT CORP. RESEARCH DIV. Quehanna, Pa **AM3-4711**

Cal	Curtiss-Wright Corp.	11031 Van Owen St. North Hollywood	TR7-2151
DC	Curtiss-Wright Corp.	821 15th St. NW, Washington 5	NA8-5804
Ohio	Curtiss-Wright Corp.	333 W 1st St. Dayton 2	BA4-0373

CUSTOM SCIENTIFIC INSTRUMENTS INC. 561 Devon St. Kearny, NJ **WY1-6403**

CUTLER-HAMMER, INC. ..... **412 N 12th St. Milwaukee 1, Wis** **BR1-7800**

Cal	Cutler-Hammer, Inc.	1661 Industrial Way, Belmont	HE1-3835
Cal	Cutler-Hammer, Inc.	6431 Bandini Blvd. Los Angeles 22	RA3-8391
Ga	Cutler-Hammer, Inc.	210-16th St. Atlanta 13	TR4-9745
Ill	Cutler-Hammer, Inc.	6525 W Irving Park Rd. Chicago 34	AV2-2600
Md	Cutler-Hammer, Inc.	2319 Maryland Ave. Baltimore 18	HO7-9001
Mass	Cutler-Hammer, Inc.	415 Western Ave. Boston 35	AL4-6210
Mich	Cutler-Hammer, Inc.	15427 Woodrow Wilson Ave. Detroit 38	TU3-1600
Mo	Cutler-Hammer, Inc.	4550 Main St. Kansas City 11	WE1-2787
Mo	Cutler-Hammer, Inc.	8118 Page Blvd. St. Louis 30	HA9-7711
NY	Cutler-Hammer, Inc.	8 W 40th St. New York 18	PE6-8400
Ohio	Cutler-Hammer, Inc.	11322 Southland Rd. Cincinnati 40	PR1-5252
Pa	Cutler-Hammer, Inc.	65 West Ave. Wayne	TR8-0820

CUXSON, GERRARD & CO. LTD. Oldbury, Birmingham, Eng

DAGE TELEVISION DIV. THOMPSON RAMO WOOLDRIDGE INC. ..... **W 10th St. Michigan City, Ind.** **TR4-3251**

DAHL CO., INC. GEORGE W. ... **86 Tupelo St. Bristol, R. I.** **CL3-9500**

Cal	Barton Sales Co.	348 S Atlantic Blvd. Monterey Park	CU3-6501
Cal	Bellfove Co.	420 Market St. San Francisco	YU2-3713

La	Thompson Equip. Co.	4020 Thalia St. New Orleans	MA3885
Md	Penn-Mar-Va Ind. Sales Co.	1177 Northern Pkwy. Baltimore 12	VA5-9500
Mass	O. C. Jones & Co. Inc.	26 Thayer St. Waltham 54	IV9-0011
NJ	H. M. Miller Co.	146 E Front St. Plainfield	PL5-6700
NY	J. M. Meyer	1072 Colvin Ave. Buffalo	DE5444
Oreg	Fryer & Co. Inc.	9035 SW 58th Ave. Portland 1	CA6-3733
Pa	Flow Engineering Inc.	Box 478, Flourtown	CH8-1355
Tenn	Tenn Instrumentation Sales Co.	309 Commerce St. Kingsport	CI6-8581
Tex	M. N. Dannenbaum Co.	2431 S Wayside Dr. Houston 21	WA3-7655
Can	Brooks Rotameter Co. Ltd.	32A Howden Rd. Scarborough, Ont.	PL9-5648

DALE PRODUCTS, INC. ..... **Box 488, Columbus, Neb** **LO4-3131**

Cal	T. L. Stevens Co.	15222 S Grevillea Ave. Lawndale	OS9-1419
Colo	R. C. Mueller	1200 Stout St. Denver	TA5-2940
Fla	W. J. Reasor & Associates	134 Bosphorus Ave. Tampa	67-5571
Ill	L. W. Beier Co.	6618 W North Ave. Chicago 35	BE7-2420
Md	R. L. Wilkinson, Inc.	707 Stevenson Ln. Towson 4	VA3-7800
Mich	Burcaw-Cowan & Co.	22128 Grand River Ave. Detroit 19	KE3-7700
Minn	M. Franklin Co.	338 E Franklin Ave. Minneapolis	FE6-2315
Mo	R. Deane	10825 McGee St. Kansas City	WI2-0130
NY	Kaelber & Mack	1 Park Ave. Manhasset	MA7-6620
NC	J. Rudisill Associates	2009 N Tryon St. Charlotte 6	FR6-4792
Ohio	Scott & Steffen, Inc.	1836 Euclid Ave. Cleveland 15	TO1-2626
Tex	E. F. Aymond Co.	4312 Maple Ave, Dallas 19	LA6-5233

DALMO VICTOR CO., DIV. TEXTRON INC. ..... **1515 Industrial Way, Belmont, Cal** **LY1-1414**

Cal	The Thorson Co.	7361 Melrose Ave. Los Angeles 46	WE4-1191
NY	East Coast Eng. Sales & Service Co.	1405 Northern Blvd. Roslyn	MA1-7500

DAMASCUS TUBE CO. ..... **Box 71, Greenville, Pa** **NI6-1500**

Cal	P. G. Smith	1045 W Huntington Dr. Arcadia	MU1-6398
Ill	W. J. Erdell	1462 Ambleside, Deerfield	AM2-8096
Mass	J. M. Kirk	43 Clinton St. Malden 48	DA4-7150
Mo	C. W. East	4030 Chouteau Ave. St. Louis 10	JE1-7793
NJ	T. L. Lee	Box 236, Wayne	OX4-1626
NY	W. Woodburn	21 Prince St. Rochester 7	BA5-0701
Ohio	S. H. Shetler	376 W Main, Orwell	2833
Ohio	R. H. Anning	822 Delta Ave. Cincinnati 26	EA1-2711
Pa	J. A. Downey, Jr.	3701 N Broad St. Philadelphia 40	BA5-8048
Pa	S. T. Hossler	6728 Lolly Dr. Monroeville	DR2-9554
Tex	L. P. Saunders	4101 San Jacinto St. Houston 4	JA4-2951
Wash	M. M. Mossman	801 The Hoge Bldg. Seattle 4	MA4-5393

DARLING VALVE & MFG. CO. **Williamsport 28, Pa**

Ala	J. M. Foster	2925 Central Ave. Birmingham	
Cal	A. C. Cope	435 Bryant St. San Francisco	EX2-8064
NY	M. S. Evans	500 5th Ave. New York City	CH4-6017
NC	W. H. Ashworth	3103 Masonic Dr. Greensboro	CY9-1790
Ohio	F. E. Backus	1513 Jefferson Ave. Toledo	CH6-2482
Tex	D. F. Sable	1120 Fidelity Union Tower Bldg. Dallas	RI8-6125
Tex	R. W. Pullen	Box 6445, Houston	JA9-9397

DATA-MASTER CORP., SUB. THE BRISTOL CO. ..... **85 Hazel St. Glen Cove, NY** **OR6-7380**

Ala	The Bristol Co.	1021 Comer Bldg. Birmingham 3	AL1-0034
Cal	The Bristol Co.	6800 E Acco St. Los Angeles 22	RA3-9751
Colo	The Bristol Co.	4555 E 46th Ave. Denver 16	DE3-6228
Ill	The Bristol Co.	351 E Ohio St. Chicago 11	WH4-2190
Mass	The Bristol Co.	Statler Bldg. Boston 16	HU2-1728
Mich	The Bristol Co.	10329 W McNichols Rd. Detroit 21	UN4-4284
Mo	The Bristol Co.	434 Cotton Belt Bldg. St. Louis 2	CH1-7892
NY	The Bristol Co.	250 W 57th St. New York 19	CI5-4953
Ohio	The Bristol Co.	8905 Lake Ave. Cleveland 2	AT1-6934
Pa	The Bristol Co.	Natl. Bank Bldg. Philadelphia 7	LO3-2386
Tex	The Bristol Co.	3617 W Alabama, Houston 27	MO7-6509
Can	The Bristol Co. of Canada, Ltd.	71 Duchess St. Toronto 2, Ont.	EM3-3421

DATA-STOR DIV. COOK ELECTRIC CO. ..... **8100 N Monticello Ave. Skokie, Ill** **OR3-9200**

DATEX CORP. ..... **1307 S Myrtle Ave. Monrovia, Cal** **EL9-5381**

Ill	Datex Corp.	3740 Dempster St. Skokie	OR6-3636
NJ	Datex Corp.	845 Broad Ave. Ridgefield	WH5-0150
NY	Brogan Assoc. Inc.	220 Jericho Tnpk. Mineola	PI7-3230
Tex	E. Lipscomb Assoc.	3605 Inwood Blvd. Dallas	FL7-1881

DAVEN CO. ..... **530 W Mt. Pleasant Ave. Livingston, NJ** **WY2-4300**

Cal	M. A. Stolaroff Co.	4622 W Slauson Ave. Los Angeles	AX3-6226
Ill	J. G. Twist Co.	5322 W Diversey Ave. Chicago	SP7-2250
Ind	L. M. DeVoe Co.	4010 Washington Blvd. Indianapolis	AT3-1395
Iowa	J. Vrbik Co.	419 3rd St. SE, Cedar Rapids	EM5-0461
Mass	S. B. Pierce Associates	583 Neponset St. Norwood	NO7-3164
Mich	R. S. Lohmann Co.	12730 Fenkell, Detroit	UN2-9465
NY	F. W. Taylor Co. Inc.	4455 E Genesee St. DeWitt 14	GR6-0422
NC	Murphy & Cox	1106 Burke St. Winston-Salem	PA4-0750
Ohio	A. Nace Co.	Box 146, Brecksville	JA4323
Pa	V. S. Malta	801 Preston Rd. Philadelphia	VE6-5122
Tex	J. A. Green Co.	7118 Envoy Ct. Dallas 7	FL1-9947
Wash	H. Levinson Co.	1117 2nd Ave. Seattle	MA2-5433

DAVIDSON STEEL CORP. ..... **444 Madison Ave. New York 22, NY** **PL9-7150**

DAVY & UNITED INSTRUMENTS LTD. DARNAL WKS. Sheffield 9, Eng **SH4-9971**

DAWE INSTRUMENTS LTD. ..... Harlequin Ave. Great West Rd. Brentwood, Middx, Eng EA6215

DAYSTROM INC., CONTROL SYSTEMS DIV. 4455 Miramar Rd. La Jolla, Cal

Colo	A. Webber	Box 34, Berthoud	
Ga	R. Richards	716 Longwood, Atlanta	
NY	M. Lyford	104 E 36th St. New York 16	
Va	R. Burns	9506 Marguerita Ct. Falls Church	

DAYSTROM INC. WESTON INSTRUMENTS DIV. 614 Frelinghuysen Ave. Newark 12, NJ. BI3-4700

Ariz	Daystrom Inc.	221 E Camelback Rd. Phoenix	AM6-9036
Cal	Daystrom Inc.	2001 S Grand Ave. Los Angeles 7	RI9-2361
DC	Daystrom Inc.	425 13th St. NW, Washington 4	DI7-3636
Ill	Daystrom Inc.	205 W Wacker Dr. Chicago 6	FR2-4656
Mass	Daystrom Inc.	66 Central St. Wellesley 81	ED2-6135
Mich	Daystrom Inc.	17700 W McNichols Rd. Detroit 35	DI1-2121
NY	Daystrom Inc.	50 Church St. New York 7	WO4-3510
Pa	Daystrom Inc.	101 N 33rd St. Philadelphia 4	BA2-6443
Tenn	Daystrom Inc.	2917 Sanderson Rd. Knoxville 21	RI9-2361
Tex	Daystrom Inc.	3405 Mercer, Houston 27	JA6-4115
Wash	Daystrom Inc.	831 Airport Way, Seattle 4	MU2-3355
Wis	Daystrom Inc.	617 N 2nd St. Milwaukee 3	BR2-1538

DAYTON ELECTRIC MFG. CO. 126 S Oakley Blvd. Chicago 12, Ill SE8-3879

Cal	W. W. Grainger, Inc.	1401 E 3rd St. Los Angeles	AN3-6928
Ill	W. W. Grainger, Inc.	2330 W Adams St. Chicago	SE8-3544
Md	W. W. Grainger, Inc.	800 S Hanover St. Baltimore	SA7-0280
Mass	W. W. Grainger, Inc.	84 Lincoln St. Boston	AL4-9220
Mich	W. W. Grainger, Inc.	1701 E McNichols Rd. Detroit	FO6-2373
Minn	W. W. Grainger, Inc.	1818 4th St. S, Minneapolis	FE8-2376
Mo	W. W. Grainger, Inc.	2110 Pine St. St. Louis	CE1-5031
NJ	W. W. Grainger, Inc.	355 Mulberry St. Newark	MI2-4266
NY	W. W. Grainger, Inc.	533 Canal St. New York	CA6-3810
Ohio	W. W. Grainger, Inc.	2150 Hamilton Ave. Cleveland	TO1-1085
Tenn	W. W. Grainger, Inc.	339 S Front St. Memphis	JA5-0396
Tex	W. W. Grainger, Inc.	1409 St. Emanuel St. Houston	CA8-8647

DEAN BROTHERS PUMPS INC. 323 W 10 St. Indianapolis, Ind. ME4-6401

Ga	Dean Brothers Pumps, Inc.	Box 11731 Northside Sta. Atlanta 5	CE7-3837
Ill	Dean Brothers Pumps, Inc.	53 W Jackson Blvd. Chicago 4	WA2-1960
NY	Dean Brothers Pumps, Inc.	4053 Lindell Blvd. St. Louis	JE5-1640
NY	Dean Brothers Pumps, Inc.	92 Liberty St. New York 6	BA7-9215
Pa	Dean Brothers Pumps, Inc.	29 W Lancaster Ave. Ardmore	MI9-2802

DEARBORN CHEMICAL CO. ..... Merch. Mart Plaza, Chicago 54, Ill. WH4-3273

DEFENSE APPAREL ..... 115 Allyn St. Hartford, Conn JA2-1957

DEGUSSA ..... Frankfurt/Main, Germany

NY	Terra Chemicals, Inc.	500 5th Ave. New York 36	CH4-4934

DEL ELECTRONICS CORP. ..... 521 Homestead Ave. Mt. Vernon, NY OW9-2000

Cal	H. Gray Co.	2166 Market St. San Francisco	KL2-1777
Cal	Landis Associates	8588 W Wash. Blvd. Culver City	UP0-3718
Ill	B. Z. Rubin Co.	12383 Fenkell Ave. Detroit 27, Mich	EU3-0171
Ind	B. Z. Rubin Co.	12383 Fenkell Ave. Detroit 27, Mich	EU3-0171
Ky	B. Z. Rubin Co.	12383 Fenkell Ave. Detroit 27, Mich	EU3-0171
Mass	Electronic Comp. & Services	30 Huntington Ave. Boston	KE6-8581
Mich	B. Z. Rubin Co.	12383 Fenkell Ave. Detroit 27	EU3-0171
NJ	S. Glassman	28 Prestwick Terrace, Glen Cove, NY	OR6-1039
NY	S. Glassman	28 Prestwick Terrace, Glen Cove	OR6-1039
Ohio	B. Z. Rubin Co.	12383 Fenkell Ave. Detroit 27, Mich	EU3-0171
Can	R. C. Testing & Control Systems	618 Vaughan Rd. Toronto 10, Ontario	RU1-8658

DELAPENA & SON LTD ..... Tewkesbury Rd, Cheltenham, Glouc. Eng .. CH5-6341

Ind	National Automatic Tool Co.	Richmond

DE LAVAL STEAM TURBINE CO. Trenton 2, NJ

DELTA DESIGN, INC. ..... 7460 Girard Ave. La Jolla, Cal GL4-1185

Ariz	Howe & Howe	Box 10497, Phoenix	AM5-9185
Cal	Hafstrom-Thompson Associates, Inc.	16212 Ventura Blvd. Encino	ST8-0800
Cal	Cerruti & Associates	Box 509, Redwood City	EM9-3354
Colo	Electronic Components Sales, Inc.	2149 S Clermont St. Denver 22	SK7-1322
DC	Brimberg Associates	221 Investment Bldg. Washington 5	DE2-8000
Fla	W. B. Wimberly Co.	532 S Fort Harrison Ave. Clearwater	CL3-7072
Ill	Ridgway Associates	6100 W North Ave. Chicago 39	TU9-5715
Mass	Saunders & Co.	8 Prospect St. Waltham 54	TW4-6071
NY	Central Associates	44 N Dean St. Englewood NJ	LO8-0808
Pa	L. C. Fuller, Jr.	32 Rittenhouse Pl. Ardmore	MI2-2468
Tex	Campion Sales Co.	9002 Chancellor Row, Dallas 35	FL7-4095
Wash	F. H. Haight Co.	3212 Eastlake Ave. Seattle 2	EA2-1818

DELTIME, INC. ..... 139 Hoyt St. Mamaroneck, NY OW8-5800

Cal	Tech-Ser, Inc.	3540 Wilshire Blvd. Los Angeles	DU5-1765
Conn	Sales Engineering Co.	Sugar Ln. Newton	GA6-4434
Fla	W. A. Brown & Associates	201 Capron Rd. Indian River City	AM7-0411
Ill	Ellinger Sales Corp.	6540 Northwest Hwy. Chicago 31	RO3-1570
Mass	Sales Engineering Co.	89 High St. Chelmsford	CA7-0305
Mich	Shalco	23525 Woodward Ave, Ferndale	LI7-4771
Minn	L. H. Josefson & Associates	402 Sweet Briar Ln. Hopkins	WE8-6695
NJ	F. F. Sylvester & Assoc.	649 Morris Ave. Springfield	DR6-3324
NJ	Houser Associates	188 Water St. Perth Amboy	HI2-3159
NY	I. A. Hotze Co.	112 De Witt St. Syracuse	GR9-6641

Tex	G. V. Peck Co.	130 Casa Linda Plaza, Dallas 18	DA1-6579
Wash	Stanley Enterprises	127 River St. Seattle 8	PA3-3320

DELTRON, INC. ..... 4th & Cambria Sts. Philadelphia 33, Pa ... RE9-1101

Cal	R. L. Pflieger Co.	1652 Laurel St. San Carlos	LY1-0395
Cal	R. G. Moye Co.	116 S Stoneman Ave. Alhambra	CU3-1669
Fla	E. C. Raymund & Associates	Box 8215, Medeira Beach	WA1-9735
Ill	Bauman & Bluzat Co.	4140 W Fullerton Ave. Chicago 39	HU6-6809
Mass	E. A. Janse Associates	354 Washington St. Wellesley Hills 81	CE5-1623
NY	DuBovy Associates	144-45 35th Ave. Flushing	FL3-6963
Ohio	E. E. Bock & Associates	3870 W 212th St. Cleveland 26	ED1-5212
Pa	C. E. Babcock Co.	430 Huntington Dr. Wayne	MU8-8288

DeMARKUS CORP., LOUIS ..... 3080 Main St. Buffalo 14, NY AM2100

DEMING CO. ..... Broadway Ave. Salem, Ohio ED7-8741

NY	The Deming Co.	420 Lexington Ave. New York 17	MU5-8885

DE MORNAY-BONARDI, INC. ..... 780 S Arroyo Pkwy. Pasadena, Cal SY2-4142

Cal	G. E. Moxon Sales	489 S Robertson Blvd. Beverly Hills	BR2-9311
Cal	R. L. Pflieger Co.	1652 Laurel St. San Carlos	LY1-0396
Colo	Kelley Enterprises	336 E 4th St. Loveland	NO7-1376
Fla	W. A. Brown & Associates	Box 206, Indian River City	AM7-0411
Ill	H. Marsland & Co.	6699 Lincoln Ave. Chicago	OR6-1100
Mass	Dynamic Devices, Inc.	11 Albion St. Wakefield	CR6-6049
NJ	L & M Associates	511 Victor St. Saddle Brook	DI3-3070
NY	J. A. Reagan Co. Inc.	45 N Lake Ave. Albany 3	HE6-9649
Ohio	E. C. Frost & Co.	1545 Chelmsford Rd. Mayfield Hts. 24	HI2-9040
Tex	M. Spears Co.	4944 James Ave. Fort Worth 15	WA3-4657
Wash	B. C. Porter Co.	1209 Poplar Pl. Seattle 44	EA3-8330
Can	Bayly Engineering, Ltd.	Hunt St. Ajax, Ont.	118

DENISON ENGINEERING DIV. AMER. BRAKE SHOE CO. 1160 Dublin Rd. Columbus 16, Ohio HU8-1191

DENISON MINES LTD ..... 360 Bay St. Toronto 1, Can

DENTAL FILLINGS LTD. ..... 49, Grayling Rd. London N 16, Eng

DESIGN SERVICE CO. INC. ..... 76 9th Ave. New York 11, NY OR5-6400

Fla	Design Service Co. Inc.	103 Marion Ln. Cocoa Beach	SU3-7676
Ind	Design Service Co. Inc.	11 NW 3rd St. Evansville 8	HA5-6013
Mass	Design Service Co. Inc.	113 Washington St. Brookline 46	BE2-8125
NJ	Design Service Co. Inc.	Box 155, Whippany	TU7-5500
NY	Design Service Co. Inc.	2700 Shames Dr. Westbury	ED3-5200
Can	Canadian Design Service Co. Ltd.	760 Victoria Sq. Montreal, Que	UN6-3647
Can	Canadian Design Service Co. Ltd.	119 Adelaide St. W, Toronto, Ont.	EM6-8981

DESIGNERS for INDUSTRY, INC. 4241 Fulton Pkwy. Cleveland 9, Ohio SH9-0700

Cal	Collins Electronics Sales, Inc.	535 Middlefield Rd. Palo Alto	DA6-0647
Colo	Brown Technical & Assoc. Sales	130 S Yarrow St. Denver 26	BE7-3467
DC	K. D. Halleck	Continental Hotel, Washington 1	NA8-1672
Fla	R. B. Willhoite	111 Carolyn Ave. Panama City Beach	AD4-3303
Ill	M. C. Cook	1175 Waukegan Rd. Deerfield	WI5-2043
Me	W. M. Altenburg	465 Congress St. Portland	SP3-4390
Mo	L. L. Petefish	6414 A Hampton Ave. St. Louis 9	FL1-2175
NY	F. C. Young	907 Monroe Ave. Rochester 20	BR1-2156
Pa	Cooper-Clement Associates	835 Glenside Ave. Wyncote	LI8-5458
Tex	Kemp Engineering Co.	2618 Manana Dr. Dallas 20	FL7-6063
Wash	E. F. Reiber	Box 1621, Seattle 55	AT4-0720
Can	Radionics, Limited	8230 Mayrand St. Montreal 9, Que	RE9-5617

DETROIT CONTROLS DIV. AMER. RAD & STAND. SAN. CORP. ..... 5900 Trumbull, Detroit 8, Mich TR2-0300

DEVCO ENG. INC., CONTROL SYSTEMS DIV. Pier Ln. W, Caldwell, NJ ... CA6-0610

DEVCON CORP. ..... Endicott St. Danvers, Mass SP4-1990

DE VILBISS CO. ..... 300 Phillips Ave. Toledo 1, Ohio GR4-5411

Cal	The DeVilbiss Co.	6811 E Slauson Ave. Los Angeles 22	RA3-6307
Cal	The DeVilbiss Co.	1335 N 10th St. San Jose 12	CY7-1820
Ga	The DeVilbiss Co.	1100 Northside Dr. NW, Atlanta 18	TR5-0954
Ill	The DeVilbiss Co.	1280 W Washington Blvd. Chicago 7	CA6-6847
Mich	The DeVilbiss Co.	111 Oakman Blvd. Detroit 3	TO9-8100
Mich	The DeVilbiss Co.	811 W Fulton St. Grand Rapids 2	GL6-1674
Mo	The DeVilbiss Co.	1501 Fairview Ave. St. Louis 32	HA9-1920
NY	The DeVilbiss Co.	10 Stern Ave. Springfield	DR6-7900
Ohio	The DeVilbiss Co.	4008 E 89th St. Cleveland 5	BR1-6065
Pa	The DeVilbiss Co.	345 Mt. Lebanon Blvd. Pittsburgh 34	LO3-6611
Pa	The DeVilbiss Co.	401 N Broad St. Philadelphia 8	WA2-6700
Tex	The DeVilbiss Co.	2606 Irving Blvd. Dallas 7	RI1-4052

DEWEY CORP., G.C. ..... 202 E 44th St. New York 36, NY MU2-7369

DEWRANCE & CO., LTD ..... Great Dover St. London SE1, Eng

Arg	Knight, Olivella & Co.	Reconquista 390, Buenos Aires
Arg	M. Ilisen, Engineers S.R.L.	L. N. Alem 413, Buenos Aires
Braz	R. S. Hall Ltd.	Rue Margarda 369, Sao Paulo
Can	Dewrance of Canada Ltd.	150 Eglinton Ave. E, Tor.
S Af	Harvey & Russell Ltd.	5-7 Simmonds St. Ext. Johannesburg

DE ZURIK CORP. ..... Sartell, Minn BL1-0221

Fla	Dezurik Sales Co.	1302 N Pace Blvd. Pensacola	HE3-1812

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
NJ	Dezurik Sales Co.	460 Bloomfield Ave. Montclair	PI4-6819
Wis	Dezurik Sales Co.	Shawano	
	DIAMOND POWER SPECIALTY CORP.	**Box 415, Lancaster, Ohio**	**OL3-6540**
Cal	C. C. Moore & Co. Engineers	1111 Wilshire Blvd. Los Angeles 17	HU2-7650
Ill	Diamond Power Specialty Corp.	W Adams St. Chicago 3	RA6-4426
Mass	Diamond Power Specialty Corp.	10 High St. Boston 10	HA6-6676
Mich	Diamond Power Specialty Corp.	1249 Washington Blvd. Detroit 26	WO5-6150
Minn	R. G. Read & Co.	15312 Hwy. 7, Hopkins	WE8-2711
NY	Diamond Power Specialty Corp.	666 3rd Ave. New York	MU2-7080
Ohio	Lathrop-Trotter Co.	3181 Linwood Rd. Cincinnati 8	TR1-2258
Ore	C. C. Moore & Co. Engineers	1120 Failing Bldg. Portland 4	CA8-9684
Pa	Diamond Power Specialty Corp.	404 Liberty Trust Bldg. Philadelphia 7	LO4-1166
Tenn	Process & Power, Inc.	1565 Harbor Ave. Memphis 6	WH2-3253
Tex	A. M. Lockett & Co., Ltd.	1807 Commerce St. Dallas 1	RI1-4155
Can	Canapower Therm. Spec. Ltd.	183 Yonge St. Toronto, Ont.	HU5-0483
	DIAN LABS., INC.	**611 Broadway, New York 12, NY**	
Ariz	Technical Services Co. Inc.	2430 E Washington St. Phoenix	BR5-5423
Cal	Peninsula Associates	1345 Hancock St. Redwood City	EM9-1226
NM	Technical Services Co. Inc.	2430 E Washington St. Phoenix, Ariz	BR5-5423
Ore	Peninsula Associates	1345 Hancock St. Redwood City, Cal	EM9-1226
Tex	Technical Services Co. Inc.	2430 E Washington St. Phoenix, Ariz	BR5-5423
Wash	Peninsula Associates	1345 Hancock St. Redwood City, Cal	EM9-1226
	DICE CO., J.W.	**Englewood 41, NJ**	**LO9-0471**
Ill	Sherertz-Henderson	5707 W Lake St. Chicago 44	CO1-1032
Mich	M. Antonik Co.	10049 Asbury Park, Detroit 27	VE6-51
Ohio	L. F. Grunkemeyer	1344 Meier Ave. Cincinnati 8	EA1-1157
	DIETZ CO., INC., HENRY G.	**12-16 Astoria Blvd. L.I. City 2, NY**	**RA6-3347**
Ill	Haydon & Co.	53 W Jackson Blvd. Chicago 9	WE9-4121
	DIGITAL EQUIPMENT CORP.	**Maynard, Mass**	**TW7-8822**
Ariz	Instruments for Measurements	3150 El Cajon Blvd. San Diego, Cal	JU3-1972
Cal	Instruments for Measurements	3455 Cahuenga Blvd. Hollywood	HO9-7295
Conn	Eltron Engineerings Sales, Inc.	2346 Whitney Ave. Hamden 18	AT8-9276
Idah	R. S. Drake Associates, Inc.	Box 2126, Idaho Falls	JA2-7792
Md	Wild & Associates, Inc.	2523 Wilson Blvd. Arlington, Va	JA4-2274
Mass	Eltron Engineering Sales, Inc.	246 Walnut St. Newtonville 60	DE2-6975
NJ	Wild & Associates, Inc.	1519 Northern Blvd. Roslyn, NY	MA1-8660
NY	Wild & Associates, Inc.	1519 Northern Blvd. Roslyn	MA1-8660
Pa	Wild & Associates, Inc.	Box 95, Southampton	LO8-7978
Tex	J. Y. Schoonmaker Co. Inc.	Box 35266, Dallas 35	LA8-7238
Va	Wild & Associates, Inc.	2523 Wilson Blvd. Arlington	JA4-2274
Wash	R. S. Drake Associates, Inc.	1817 Norman St. Seattle 44	EA3-8545
	DIGITRAN CO. DIV. ENDEVCO CORP.	**660 S Arroyo Pkwy. Pasadena, Cal**	**MU1-9667**
Cal	Wright Engineering Co.	180 E California St. Pasadena	MU1-8488
Cal	Wright Engineering Co.	126 25th Ave. San Mateo	FI5-3157
Colo	Gates Co.	3413 S Bannock St. Englewood	SU1-8566
Fla	Specialized Equipment Corp.	Box 323, Cocoa Beach	FL3328
NM	Gates Co.	122 Harvard Dr. SE, Albuquerque	CH3-8010
Okla	A. Barnes Co.	Box 5417, Tulsa	WE6-7707
Tex	A. Barnes Co.	3603 Lemmon Ave. Dallas 19	LA6-8736
Utah	Gates Co.	200 S Main St. Salt Lake City	EL9-1101
	DILWORTH, SECORD, MEAGHER & ASSOC. LTD.	**4214 Dundas St. W, Toronto, Ont, Can**	
	DIVISION LEAD CO.	**7742 W 61st Pl. Summit, Ill**	
	DJECO DIV. DJORDJEVIC ENGRG. CO.	**1933 N Damen, Chicago 47, Ill.**	**AR6-7388**
	DJORDJEVIC ENGINEERING CO.	**1933 N Damen, Chicago 47 Ill**	**AR6-7388**
	DOLIO & ASSOCIATES, JOHN	**208 S La Salle St. Chicago 4, Ill**	**DE2-6206**
	DOLLINGER CORP	**11 Centre Pk, Rochester 3, NY**	**BA5-9405**
Cal	J. A. Charlson	630 Natoma St. San Francisco 3	UN1-4559
Cal	E. W. M. Bennett	Box 959, Sherman Oaks	ST8-1151
Conn	Dust Control Corp.	1243 Post Rd. Fairfield	CL2-3349
Ill	Genn & Logan Assoc.	7607 W Addison St. Chicago	NA5-4400
Md	C. D. Lutton Co.	2127 Maryland Ave. Baltimore	BE5-5967
Mass	G. Preston Co.	113 Broad St. Boston 10	HA6-3995
Mich	Russell & Olson Co.	15820 James Congens Highway, Detroit	UN4-7010
NY	R. P. Hempel	9 Meadow St. Marcellus	OR9-2381
NY	Irvington Sales, Inc.	1413 Hertel Ave. at N Pk, Buffalo	EX2191
NY	M. W. Black & Co. Inc.	41 E 42nd St. New York City 17	MU7-2960
Pa	Mickle-Milnor Eng. Co.	125 Coulton Ave. Ardmore	MI2-9700
Pa	Glassner Equip. Co.	1942 5th Ave. @ Jumonville St. Pittsburgh	CO1-5697
	DONALDSON CO., INC.	**666 Pelham Blvd. St. Paul 14, Minn**	
	DORAN CO., A.V.	**950 Francis Pl. St. Louis 5, Mo**	**PA3-3377**
	DORNBLATT & ASSOC., INC. B. M.	**826 Lafayette St. New Orleans 12, La**	**TU5774**
	DORR-OLIVER, INC.	**77 Havemeyer Ln. Stamford, Conn**	**FI8-5871**
Cal	Dorr-Oliver Inc.	2900 Glascock St. Oakland 1	KE3-3636
Cal	Dorr-Oliver Inc.	811 W 7th St. Los Angeles 17	TU3297
Colo	Dorr-Oliver Inc.	Box 149, Denver	SU1-6635
Ga	Dorr-Oliver Inc.	900 Peachtree St. NE, Atlanta 9	TR5-8151
Ill	Dorr-Oliver Inc.	613 Merchandise Mart, Chicago 54	DE7-0723
Tex	Dorr-Oliver Inc.	6115 Berkshire Ln. Dallas 25	EM8-2873
Wash	Dorr-Oliver Inc.	420 1st Ave. W, Seattle 99	AT2-0767
	DOUGLAS ENGINEERING CO. LTD.	**195 Bridgeland Ave. Toronto 19, Ont, Can**	**RU1-9321**
Can	Douglas Engrg. Co. Ltd.	276 Elgin St. Ottawa, Ont	CE2-2968
Can	Douglas Engrg. Co. Ltd.	229 Notre Dame Ave. Winnipeg, Man.	WH3-6047
Can	Douglas Engrg. Co. Ltd.	101 Murray St. Montreal, Que.	WE5-4616
Can	Douglas Engrg. Co. Ltd.	50 St. Jean, Quebec, Que	LA9-4215
	DOW CHEMICAL CO.	**Midland, Mich**	**ME6-1000**
	DOW CORNING CORP.	**Midland, Mich**	**TE2-2371**
Cal	Dow Corning Corp.	3033 W Mission Rd. Alhambra	CU3-6821
Ga	Dow Corning Corp.	Box 5074, Atlanta 2	TR6-1005
Ill	Dow Corning Corp.	6101 W Fullerton Ave. Chicago 39	TU9-5200
Md	Dow Corning Corp.	8605 Cameron St. Silver Spring	JU8-3222
Mass	Dow Corning Corp.	20 Providence St. Boston 16	HA6-5994
NJ	Dow Corning Corp.	Box 549, Englewood Cliffs	LO7-4960
Ohio	Dow Corning Corp.	3592 Lee Rd. Cleveland 20	WY1-1900
Tex	Dow Corning Corp.	6778 Greenville Ave. Dallas 31	EM8-1301
	DOWNINGTON IRON WORKS, INC.	**Wallace Ave. Downington, Pa**	**AN9-2250**
Cal	J. A. Barr	5327 Santa Monica Blvd. Los Angeles 29	HO5-2912
Conn	K. M. Irwin	1199 Main Ave. Clifton, NJ	PR3-3317
Del	C. E. Raysor	Wallace Ave. Downingtown, Pa	AN9-2250
Ky	D. F. Baumler	130 Hillcrest Dr. Clarence	RL9-6766
Md	C. E. Raysor	Wallace Ave. Downington, Pa	AN9-2250
Mass	K. M. Irwin	1199 Main Ave. Clifton, NJ	PR3-3317
NJ	K. M. Irwin	1199 Main Ave. Clifton	PR3-3317
NY	K. M. Irwin	1199 Main Ave. Clifton, NJ	PR3-3317
Ohio	D. F. Baumler	130 Hillcrest Dr. Clarence	RL9-6766
Pa	C. E. Raysor	Wallace Ave. Downingtown	AN9-2250
Va	C. E. Raysor	Wallace Ave. Downingtown, Pa	AN9-2250
W Va	D. F. Baumler	130 Hillcrest Dr. Clarence, NY	RL9-6766
	DRAVO CORP.	**Dravo Bldg. Pittsburgh 22, Pa**	**EX1-2600**
	DRESSEN-BARNES CORP.	**250 N Vinedo Ave. Pasadena 8, Cal**	**MU1-0643**
Cal	C. R. Dalton Associates	1037 Laurel St. San Carlos	LY1-2654
Cal	D. G. DeHaas Co.	1923 Cable St. San Diego 6	AC4-2401
Colo	Williams & Associates, Inc.	2261 S Albion St. Denver	SK6-9403
DC	F. R. Jodon, Inc.	8510 Beech Tree Rd. Washington 14	EM3-1515
Ga	Murphy & Cots	2110 Peachtree Rd. NW, Atlanta	TR6-3020
Ill	L. F. Green & Associates	5218 W Diversey Ave. Chicago 39	PA5-6824
NY	Component Sales Corp.	218 E Hartsdale Ave. Hartsdale	SC5-1050
Ohio	M. P. Odell Co.	28614 Center Ridge Rd. Westlake	TR1-8090
Pa	K. E. Hughes Co. Inc.	101 N 33rd St. Philadelphia 4	EV6-3130
Tex	Southwest Electronic Industries	The Meadows Bldg. Dallas 6	EM3-1671
Wash	R. S. Drake Associates	1817 Norman St. Seattle	EA3-8545
Can	Whittaker Electronics, Ltd.	2137 Niagara Dr. Ottawa, Ont	CE4-4686
	DRESSER PRODUCTS, INC.	**Great Barrington, Mass**	**1560**
	DRIVER CO., WILBUR B.	**1875 McCarter Hwy. Newark 4, NJ**	**HU2-5550**
Cal	W. B. Driver Co.	2378 Westwood Blvd. Los Angeles 64	GR8-0359
Conn	W. B. Driver Co.	75 Brightwood Ln. W Hartford	AD3-5927
Ill	W. B. Driver Co.	5666-70 N Northwest Hwy. Chicago 46	KO3-6290
Ky	W. B. Driver Co.	139 St. Matthews Ave. Louisville 7	TW5-9493
Mass	W. B. Driver Co.	1874 Massachusetts Ave. Cambridge 39	KI7-4488
Minn	W. B. Driver Co.	610 Plymouth Bldg. Minneapolis	FE3-8388
NJ	W. B. Driver Co.	333 New Albany Rd. Morrestown	BE5-2860
Ohio	W. B. Driver Co.	13701 Enterprise Ave. Cleveland 35	CL2-3444
	DRIVER-HARRIS CO.	**Harrison 40, NJ**	**HU3-4800**
	DUBLIN INDUSTRIES, INC.	**11824 Dublin Blvd. Hayward, Cal**	**VI6-2786**
	DU-CO CERAMICS CO	**Box 278 Saxonburg, Pa**	**FL2-1511**
	DUMONT LABS ALLEN B. DIV. FAIRCHILD CAM & INST. CORP.	**750 Bloomfield Ave. Clifton, NJ**	**PR3-2000**
Cal	J. T. Hill Co.	420 S Pine St. Los Angeles	AT7-9633
Ill	Gassner & Clark Co.	6644 N Western Ave. Chicago 45	RO4-6121
Minn	Pinkney & Hine	1925 Nicollet Ave. Minneapolis	FE8-5523
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis 30	PA6-2233
Pa	H. E. Ransford Co.	5400 Clairton Blvd. Pittsburgh 36	TU4-3425
Tex	Norvell Associates	3603 Lemmon Ave. Dallas 19	LA6-7861
Utah	F. T. Gates Co.	822 Contl. Bank Bldg. Salt Lake City 1	EL9-1101
Wash	E. Johnson Co.	1011 E 69th, Seattle	LA4-5170
Can	Bayly Engineering Ltd.	Hunt St, Ajax, Ont.	118
	DUNHAM-BUSH, INC.	**179 South St. West Hartford 10, Conn**	**CH9-8671**
Cal	Dunham-Bush, Inc.	2505 W 3rd St. Los Angeles 7	DU5-6471
Cal	Dunham-Bush, Inc.	1485 Bayshore Blvd. San Francisco 24	JU6-7585
Ga	Dunham-Bush, Inc.	215 Church St. Decatur	DR7-8055
Ill	Dunham-Bush, Inc.	5451 N Lincoln Ave. Chicago	LO1-7973
Mich	Dunham-Bush, Inc.	16221 Wyoming Ave. Detroit 21	DI1-3973
NY	Dunham-Bush, Inc.	250 E 43rd St. New York 17	MU9-2660
Pa	Dunham-Bush, Inc.	301 York Rd. Jenkintown	TU7-7550
	DU PONT DE NEMOURS & CO. INC., E. I.	**Wilmington 98, Del**	**PR4-1000**
	DURAKOOL, INC.	**1010 N Main St. Elkhart, Ind**	**CO4-1116**
Cal	Fisher Switches	40 Gough St. San Francisco	UN1-2569
Cal	R. Meunderffer	3491 Cahuenga Blvd. Los Angeles	HO2-6039

Mich	Cadillac Electric Supply Co.	431 E Lamed St. Detroit	WO1-9462
NY	Durakool of New York	4747 Bronx Blvd. New York	FA4-8000
Ohio	Midland Electric Co.	2125 Superior Ave. Cleveland	
Can	Measurement Engrg. Ltd.	Arnprior, Ont.	400
Can	Measurement Engrg. Ltd.	1969 Avenue Rd. Toronto, Ont.	HU1-0231
Can	Measurement Engrg. Ltd.	Box 1352, Sta. O, Montreal, Que.	GR3-9198

DURALAB EQUIPMENT CORP. — **989 Linwood St. Brooklyn 8, NY** — **NI9-0581**

DURAMETALLIC CORP. — **Factory St. Kalamazoo, Mich** — **FI3-2688**

Cal	Durametallic Corp.	4935 E Olympic Blvd. Los Angeles 22	AN1-3165
Ill	Durametallic Corp.	1737 E 75th St. Chicago 49	FA4-4405
Ind	Durametallic Corp.	636 Putnam St. Ft. Wayne 7	EA0675
La	Durametallic Corp.	3020 Scenic Hi-way, Baton Rouge	EL5-2413
NJ	Durametallic Corp.	24 Commerce St. Newark 2	MI2-3444
NY	Durametallic Corp.	15 Cardinal Dr. Rochester 11	BE5-5301
Ohio	Durametallic Corp.	2574 S Maridian Rd. Youngstown	RI3-7075
Tex	Durametallic Corp.	3215 Mercer, Houston 27	JA3-4144
Wash	Durametallic Corp.	1123 W Hanford St. Seattle 4	MA4-6926
W Va	Durametallic Corp.	115 W 9th Ave. Huntington 1	JA5-0639
Can	Durametallic Corp.	130 Edward St. St. Thomas, Ont.	ME1-2946

DURANT MFG. CO. — **1900 N Buffum St. Milwaukee 1, Wis** — **LO2-5035**

Cal	John Novak (DMC)	1600 N La Brea Ave. Los Angeles 28	HO5-7800
Cal	Transmission Engineering Co.	427 Bryant St. San Francisco 7	SU1-4738
Ill	Tony Bolech (DMC)	2001 W Lake St Melrose Park	AU7-8288
Mass	R G O'Connell (DMC)	945 Great Plain Ave. Needham 92	HI4-0397
Mich	Jack Hileman (DMC)	10628 Plymouth Rd. Detroit 4	WE3-7886
Mo	W W Munroe Equipment Co.	9870 Big Bend Blvd. St. Louis	YO5-2500
NY	B J Glista (DMC)	271 North Ave. New Rochelle	NE3-6400
NY	Potter & Dugan Co.	51 Great Arrow Ave. Buffalo	VI3360
Ohio	R G Greweling (DMC)	Roselawn Center Bldg. Cincinnati 37	JE1-5073
Ohio	Mechancial Equipment Co.	3100 Prospect Ave. Cleveland 15	EN1-6212
Pa	G H Schroeder (DMC)	7 Heather Rd. Bala-Cynwyd	MO4-0336
RI	L A Nourie (DMC)	15 Thurbers Ave. Providence 5	ST1-7800

DURAPIPE & FITTINGS, LTD. — **56 Kingsway, London, WC2, Eng.** — **HO2833**

Can	Beardmore & Co. Ltd.	37 Front St. E, Toronto 1, Ont.	
Can	Beardmore & Co. Ltd.	Acton, Ont.	
Can	Beardmore & Co. Ltd.	1171 St. James St. W, Montreal	UN6-3445
Can	Beardmore & Co. Ltd.	225 St. Vallier St. E. Quebec	LA4-5825

DURIRON CO. INC. — **450 N Findlay St. Dayton 4, Ohio** — **CL4-5344**

Cal	The Duriron Co., Inc.	6903 Rita Ave. Huntington Park	LU3-1204
Ill	The Duriron Co., Inc.	140 N LaGrange Rd. LaGrange	FL4-5150
Md	The Duriron Co., Inc.	7307 York Rd. Towson	VA5-1587
Mass	The Duriron Co., Inc.	1116 Great Plain Ave. Needham	HI4-3899
Mich	The Duriron Co., Inc.	14699 Plymouth Rd. Detroit	BR3-1664
Mo	The Duriron Co., Inc.	1401 Brentwood Blvd. St. Louis	WO1-6600
NY	The Duriron Co., Inc.	730 3rd Ave. New York	YU8-3180
NY	The Duriron Co., Inc.	1965 Sheridan Dr. Buffalo	RI5915
Pa	The Duriron Co., Inc.	3 Penn Center Plaza, Philadelphia	LO8-3371
Pa	The Duriron Co., Inc.	2 Gateway Center, Pittsburgh	CO1-2504
Tenn	The Duriron Co., Inc.	Box 1046, Knoxville	7-6660
Tex	The Duriron Co., Inc.	682 M & M Bldg. Houston	CA8-1581

DYCHRO CORP. — **49 Walnut St., Wellesley 81, Mass** — **CE7-0606**

DYMEC, DIV. HEWLETT PACKARD CO. — **395 Page Mill Rd. Palo Alto, Cal** — **DA6-1755**

Cal	Neely Enterprises	3939 Lankershim Blvd. N Hollywood	TR7-0721
Ill	Crossley Associates, Inc.	2501 W Peterson St. Chicago 45	BR5-1600
Colo	Lahana & Co.	1886 S Broadway, Denver 10	PE3-3791
Md	Horman Associates, Inc.	3006 W Cold Spring Ln. Baltimore 15	MO4-8345
Mass	Yewell Associates, Inc.	Middlesex Tnpk. Burlington	BR2-9000
Mich	S. Sterling Co.	15310 W McNichols Rd. Detroit 35	BR3-2900
NJ	L. E. Robinson Co.	905 Main St. Asbury Park	KE1-3150
NY	RMC Associates	236 E 75th St. New York 21	TR9-2023
Ohio	S. Sterling Co.	5827 Mayfield Rd. Cleveland 24	HI2-8080
Pa	L. E. Robinson Co.	144 Elizabeth Ave. W Conshohocken	CH8-1600
Tex	E. Lipscomb Associates	Box 6646, Houston 5	MO7-2407
Va	Bivins & Caldwell, Inc.	Box 6514, Richmond	EL5-7931

DYNA EMPIRE, INC. — **1075 Stewart Ave. Garden City, NY** — **PI1-2700**

Cal	The Kennematt Co.	14637 Bessemer St. Van Nuys	TR3-2427
Fla	Winfield Electronic Sales	666 NE 125th St. North Miami	PL1-5566
Ill	Dwight Smith & Assoc.	9 S River St. Aurora	TW7-5752
Ind	Nelson Gage & Tool Service	510 Wysor Bldg. Muncie	AT8-5712
Mich	The Lowell Co.	1322 Elliot, Madison Heights	OR6-2063
Mo	Multiform Metals, Inc.	1421 McGee St. Kansas City	GR1-1749
Mo	L. Hoppe Co.	8114 Rosalie, St Louis 17	MI7-3420
NJ	R. E. Weber Co.	15 Terry Land. E Brunswick	CL7-5243
Ohio	R. E. Layford	322 Kiefaber St. Dayton 9	BA8-7772
Pa	W. J. Greenleaf Co.	512 Franklin Ave. Pittsburgh 21	CH1-6967
Wis	J. L. McCoy Co.	4003 W Capitol Dr. Milwaukee	UP1-9150
For	Electronics Mfrs. Export Co.	127 Grace St. Plainview, NY	WE1-3700

DYNAGE, INC. — **75 Laurel St. Hartford, Conn** — **CH6-2112**

Mass	Bordewieck Eng. Sales Co.	221 Grove St. Braintree	VI3-0845

DYNAMIC FILTERS INC. — **1565 Oakman Blvd. Detroit 38, Mich** — **TO9-2600**

Cal	A P M Cochrane	476 Marview Dr. Solana Beach	SK5-2714
NY	Wire Products Co.	1524 Kenmore, Buffalo	VI1213
Tex	The Bauer Co.	1017 Norwood, Fort Worth 7	ED6-4884

DYNAMIT NOBEL AG, PLASTICS DIV. Troisdorf Bez Koeln, Germany

DYNATRON RADIO LTD. — **St. Peter's Rd. Furze Platt, Maidenhead, Berks, Eng** — **MA5150**

NY	American Tradair Corp.	34-01 30th St. Long Island City 6	

DYNISCO, INC. — **42 Carleton St. Cambridge 42, Mass** — **UN4-7260**

Cal	H. W. Ruby & Assoc.	Box 63, La Canada	MU1-5845
Colo	Aerol Assoc.	Denver Club Bldg. Denver 2	TA5-2046
Fla	Aerol Assoc.	5724 Precision Rd. Orlando	GA3-4489
Md	Polymetric Devices Co.	Box 236, Glenside	TU7-4873
Mass	Aerol Assoc.	850 Lexington St. Waltham	TW4-7850
Mo	Aerol Assoc.	Box 6217, Lambert Airport	PE1-6853
NJ	Aerol Assoc.	1180 Raymond Blvd. Newark	MA3-0336
NY	Aerol Assoc.	103 Pickwick Rd. Dewitt	GI6-4560
NY	Aerol Assoc.	140 Great Neck Rd. Great Neck	HU7-9650
Ohio	Aerol Assoc.	7719 Reading Rd. Cincinnati	VA1-4898
Tex	Aerol Assoc.	314 N East St. Arlington	CR5-2400
Wash	Aerol Assoc.	500 Wall St. Seattle 1	MA3-0443

E-H RESEARCH LABS. INC. — **163 Adeline St. Oakland 20, Cal** — **TE4-3030**

Cal	J. T. Hill Co.	420 S Pine St. San Gabriel	AT5-9633
Ga	Scientific Sales Engineering Co.	2162 Piedmont Rd. Atlanta 9	TR3-2475
Ill	Pivan Engineering Co.	3542 Peterson Ave. Chicago	KE9-4838
Mass	Instrument Associates	30 Park Ave. Arlington	MI8-2922
Minn	P. Lind Electronics Co.	9781 Western Ave. Circle Pines	SU4-3827
Mo	Design & Sales Engineering Co.	7603 Forsyth Blvd. St. Louis 5	PA1-6403
NJ	Gawler-Knoop Co.	178 Eagle Rock Ave. Roseland	CA6-4545
NM	G. French Co.	7900 Zuni Rd. SE, Albuquerque	AM8-2478
NY	SBM Associates	969 Clinton Ave. S, Rochester 20	GR3-6506
Ohio	The Tiby Engineering Co.	2245 Warrensville Center Rd. Cleveland 18	ER1-5335
Tex	Dannemiller-Smith, Inc.	6218-B Westheimer Rd. Houston 27	HO5-3847
Wash	B. C. Porter Co.	1209 Poplar Pl. Seattle 44	EA3-8330

E. M. I. COSSOR ELECTRONICS LTD. Box 525 Dartmouth, NS, Can — **6-7491**

Can	E. M. I.-Cossor Electronics, Ltd.	3077 Bathurst St. Tor. Ont	RU1-2919

E. M. I. ELECTRONICS LTD. — **Hayes, Middlesex, Eng** — **SO2468**

Conn	Fairbanks, Morse & Co.	505 Oakwood Ave. W Hartford	
NY	H. L. Hoffman & Co.	35 Old Country Rd. Westbury	

E. M. O. INSTRUMENTATION, LTD. Western Rd. Bracknell, Berks, Eng

Conn	The Barden Corp.	Danbury	

ESC ELECTRONICS CORP. — **534 Bergen Blvd. Palisades Park, NJ** — **WI7-6400**

Ariz	Weightman & Associates	4029 Burbank Blvd. Burbank, Cal	VI9-2435
Cal	Weightman & Associates	4029 Burbank Blvd. Burbank	VI9-2435
Ill	Magnuson Associates	3347 W Irving Park Rd. Chicago 18	KE9-7555
Md	H. J. White Co.	204 W Penn Ave. Towson 4	VA8-6373
Mass	Components Sales Corp	218 E Hartsdale Ave. Hartsdale, NY	SC5-1050
Mich	Magnuson Associates	3347 W Irving Park Rd. Chicago 18, Ill.	KE9-7555
Mo	Kay Sales Co.	2600 Grand Ave. Kansas City 8	BA1-3800
NJ	Components Sales Corp.	218 E Hartsdale Ave. Hartsdale, NY	SC5-1050
NJ	H. J. White Co.	121 Covered Bridge Rd. Haddonfield	HA8-2304
NY	Franklin & Andrews Sales Corp.	43 Kent Rd. Tenafly, NJ	LO9-8800
Ohio	Callaghan-Bach	2209 Losantiville Rd. Cincinnati 13	RE1-8660
Tex	Howell Sales Co.	235 SE 14th St. Grand Prairie	AN2-0866

EAGLE-PICHER CO. — **American Bldg. Cincinnati, Ohio** — **PA1-7010**

Cal	The Eagle-Picher Co.	320 Pine Ave. Long Beach 12	HE5-4821
Ill	The Eagle-Picher Co.	1 N LaSalle St. Chicago 2	CE6-8277
NY	The Eagle-Picher Co.	420 Lexington Ave. New York 17	MU6-4930
Mo	The Eagle-Picher Co.	950 Home Savings Bldg. Kansas City 6	BA1-1090
Ohio	The Eagle-Picher Co.	1634 Standard Bldg. Cleveland 13	TO1-5424
Pa	The Eagle-Picher Co.	33rd & Arch Sts. Philadelphia 4	EV2-0660
Pa	The Eagle-Picher Co.	535 Smithfield St. Pittsburgh 22	EX1-0998
Tex	The Eagle-Picher Co.	209 N Hawkins St. Dallas 26	RI2-2606

EAGLE SIGNAL CO. A DIV. of THE GAMEWELL CO. — **202 20th St. Moline, Ill** — **MO2-5571**

Cal	Hundley Co.	3282 Fletcher Dr. Los Angeles 65	CL5-7111
Fla	Ward Engineering Co. Inc.	1015 W Central Ave. Orlando	GA2-4295
Ga	T. B. Combs Co.	1823 Gordon Rd. SW, Atlanta	PL8-8516
Ill	Kelburn Engineering Co.	3136 Clarence Ave. Berwyn	ST8-6485
Mass	Gibson Engineering Co.	1018 Commonwealth Ave. Boston 15	AS7-5074
Mich	R. D. Ernest Assoc.	12818 Puritan Ave. Detroit 27	UN1-7311
NY	C. H. Ribble Co.	31 di Carolis Ct. Hackensack, NJ	DI2-2602
Ohio	J. L. Finnicum & Assoc.	4500 Euclid Ave. Cleveland 3	HE1-7477
Ore	Branom & Leeland Instr. Co.	6019 NE Union Ave. Portland 11	BU5-5205
Pa	E. M. Moore & Co.	6964 Thomas Blvd. Pittsburgh 8	EM1-8780
Tex	L. Elliott Co.	1511 Bryan St. Dallas 1	RI8-7788
Wash	Branom & Leeland Instr. Co.	2136 2nd Ave. Seattle 1	MA2-7320

EASTERN AIR DEVICES, INC. — **385 Central Ave. Dover, NH** — **SH2-3330**

EASTERN CHEMICAL CORP. — **34 Spring St. Newark 4, NJ** — **HU2-6939**

EASTERN INDUSTRIES, INC. — **100 Skiff St. Hamden, Conn** — **CH8-3841**

Cal	Eastern Industries, Inc.	4203 Spencer St. Torrance	
Mass	Eastern Industries, Inc.	66 Central St. Wellesley	

EASTMAN KODAK CO. — **343 State St. Rochester 4, NY** — **LO2-6000**

EASTWOOD PLASTICS, LTD. PRIORY WKS. — **Arterial Rd. Leigh-on-Sea, Essex, Eng**

	EBASCO SERVICES, INC.	**2 Rector St. New York 6, NY.**	**DI4-4400**
	EBERBACH CORP.	**Box 1024, Ann Arbor, Mich**	**HO2-8434**
	EBERLINE INSTRUMENT CORP	**Box 279, Santa Fe, NM.**	**YU2-1881**
Cal	W. S. Johnson, Sr.	Box 242, Danville	VE7-7200
DC	C. O. Slover	Box 7605, Washington 4	RE7-6614
Mass	Applied Technology, Inc.	7 Vine St. Manchester	JA6-1690
Pa	C. O. Slover	Box 7605, Washington 4	
Tenn	Ridge Instrument Co.	162 Talmeda Rd. Oak Ridge	5-8177
	EBERT ELECTRONICS CORP.	**212-26 Jamaica Ave. Queens Village 28, NY**	**SP6-1800**
Ala	R. Williamson Co.	Box 28, Gadsden	LI6-9340
Cal	Hundley Co.	3282 Fletcher Dr. Los Angeles 65	CL5-7111
Conn	Northrep Associates	Box 12, Manchester	MI3-0863
Ill	A. N. Grotz & Associates	5809 W Montrose Ave. Chicago 34	SPT-9525
Md	T. Griffin Co.	32 S Fairfield Rd. Devon, Pa	MU8-4821
Mich	L. H. Dickelman Co.	18450 Livernois Ave. Detroit	UN4-4376
NJ	R. L. Ringer Co.	Box 114, Glen Rock	GI4-1434
NY	H. C. Johnson Agencies, Inc.	111 Mt. Hope Ave. Rochester 20	HA6-1090
Ohio	R. Stone & Associates	Box 3534, Cleveland Heights	EE1-4434
Pa	J. Whiting	705 Western Saving F. Bldg. Phila	KI5-8458
Tex	Southwestern Controls	Box 13352, Houston	UN2-8874
Can	Phillips Electronics Ind. Ltd.	116 Vanderhoof Ave. Toronto 17, Ont	HU5-8621
	ECLIPSE FUEL ENGINEERING CO.	**1100 Buchanan, Rockford, Ill**	**WO6-3751**
Cal	Matheson-Doherty Co.	225 Shaw Rd. S San Francisco 3	PL5-7920
Cal	Industrial Combustion Co.	1233 W Glenoaks Blvd. Glendale	CH5-5394
Conn	Etter Engineering Co.	Box 1944, New Haven 9	AT8-1115
Ill	A. A. Engelhardt	4935 W Fullerton Ave. Chicago 39	TU9-6220
Mich	Industrial Burner Systems Co.	20141 James Couzens Hwy. Detroit 35	VE7-7821
Mo	Brandwine Equipment Co.	2683 Big Bend Blvd. St. Louis 17	ST1-5432
NJ	Combustion Division	51 S 26th St. Camden 5	WO3-5777
NY	A. N. Mason	30 S Broadway, Yonkers	YO5-8954
Ohio	Stelter & Brinck	515 Melish Ave. Cincinnati 29	PL1-0453
Ohio	The W. H. Kay Co.	4040 Mayfield Rd. Cleveland 21	EV1-3440
Pa	V. C. Leatherby	104 4th St. Pittsburgh 15	ST2-2222
Tex	M. K. Griggs Co., Inc.	2801 San Jacinto, Houston 4	CA8-8645
	ECLIPSE PIONEER DIV. BENDIX CORP. Teterboro, NJ.		**AT8-2000**
Cal	Bendix West Coast Div.	117 E Providencia Ave. Burbank	VI9-3961
	ECO ENGINEERING CO.	**12 New York Ave. Newark 1, NJ**	**MA4-6545**
Cal	Huntley Engineering Co.	900 Santa Fe Ave. Los Angeles 21	MA2-3302
Ga	James Watson Co.	Box 68, Marietta	428-6423
Ill	Thomson Engineering Co.	205 W Wacker Dr. Chicago 6	FI6-0968
NJ	Charles Waer	Box 67, Oaklyn	UL4-7655
Tenn	James Watson Co.	Box 68, Marietta, Ga	428-5423
	EDGERTON, GERMESHAUSEN & GRIER, INC. 160 Brookline Ave. Boston 15, Mass.		**CO7-9700**
Cal	J. T. Hill Co.	420 S Pine St. San Gabriel	CU3-6555
Fla	S. S. Lee Assoc. Inc.	718 W Smith Ave. Orlando	GA3-6566
Md	S. S. Lee Assoc. Inc.	2521 Ennalls Ave. Wheaton	LO5-3066
Mass	H. J. Schuft Co. Inc.	815 Washington St. Newtonville	LA7-5304
Minn	Eng. Products Assoc.	1821 University Ave. St. Paul	MI8-3443
Mo	Kinrick Co.	222 Olympia Dr. St. Louis 21	JA1-4877
NM	G. French Co.	7900 Zuni Rd. SE, Albuquerque	AM8-2478
NY	G. C. Engel & Assoc. Inc.	210 S Broad St. Ridgewood, NJ	GI4-1400
NY	J. D. Ryerson Assoc. Inc.	111 Kinne Rd. Syracuse 1	GI6-1771
Ohio	Dayton Assoc.	Talbot Tower, Dayton 2	BA3-9621
Tex	Mitchell Speairs Co.	4944 James Ave. Fort Worth 15	WA8-4667
Wash	Stanley Enterprises	127 River St. Seattle 8	PA3-3320
	EDISON IND. THOMAS A., INSTR. DIV. MCGRAW-EDISON CO.	**40 Lakeside Ave. W Orange, NJ**	**RE6-1000**
Cal	Thomas A Edison Industries	14652 Ventura Blvd. Sherman Oaks	ST4-8281
Ohio	Thomas A Edison Industries	117 E National Rd. Vandalia	TW8-5921
Tex	Thomas A Edison Industries	2520 W Mockingbird Ln. Dallas	FL7-1380
	EDLOW LEAD CO.	**729 Bank St. Columbus 16, Ohio**	**HI3-4623**
	EDWARD VALVES, INC. SUB. ROCKWELL MFG. CO.	**1200 W 145th St. E Chicago, Ind**	**EX7-3231**
Ala	J. W. Eshelman & Co. Inc.	1812-28th Ave. S. Birmingham 9	TR9-3462
Cal	P. Bradfield & Co.	864 S Robertson Blvd. Los Angeles 35	OL5-9486
Mass	Ray Engineering Co.	287 Congress St. Boston 10	LI2-3020
Mich	Leatherman & Co.	2615 12th St. Detroit 16	WO1-2535
NY	Dunbar-Osgood Co. Inc.	2712 Grand Central Term. Bldg. NY	LE2-9215
Ohio	Watson Power Equipment Co.	5603 Wilson Mills Rd. Cleveland 24	HI2-5454
Okla	Edward Valves, Inc.	3130 Sand Spring Rd. Tulsa 1	GI7-5144
Pa	W. E. Bowler Co.	Forrest & Windsor Aves. Narberth	MO4-3860
Pa	Edward Valves, Inc.	400 N Lexington Ave. Pittsburgh 8	CH1-8400
Tex	Edward Valves, Inc.	Box 2126, Houston 1	CA8-9641
Wis	Steam Plant Equipment Corp.	3718 N 92nd St. Milwaukee 16	HO3-4636
	EDWARDS HIGH VACUUM, INC.	**Cumberland Ave. Burlington, Ont, Can.**	**HE4-7757**
Cal	Loren Patrick Assoc.	1107 S Fremont Ave. Alhambra	
NY	Edwards High Vacuum, Inc.	1920 Buffalo Ave. Niagara Falls	BU2-2363
	EFFICIENT ENGINEERING CO., INC. 21680 Coolidge Hwy. Detroit 37, Mich		**JO6-4690**
	EICOR DIV. SCRANTON CORP.	**4059 W North Ave. Chicago 39, Ill**	**HU6-2060**
Cal	S. Winters Co.	3193 Cahuenga Blvd. Hollywood 28	HO6-2171
DC	Industrial Associates	1725 I St. NW, Washington	FE8-4095

Ill	D. Dolin Sales	3553 W Peterson Ave. Chicago 45	JU8-3738
NY	Russell Associates	165 Orinoco Dr. Brightwaters	MO6-6500
Tex	Allied Components	Box 10203, Dallas	RI7-7836
	EISLER ENGINEERING CO.	**765 S 13th St. Newark 3, NJ**	**BI3-5310**
	EITEL-McCULLOUGH, INC.	**301 Industrial Way, San Carlos, Cal**	**LY1-1451**
Cal	J. S. Heaton Co.	413 Lathrop St. Redwood City	EM9-5278
Cal	B. Allgood	3402 W Century Blvd. Los Angeles	OR3-2710
Colo	McCloud & Raymond Co.	5403 E Evans Ave. Denver 22	SK6-1589
DC	J. R. Eberly Co.	1700 K St. NW, Washington 6	DI7-2667
Ga	J. E. Joyner & Associates	2258 Cascade Rd. SW, Atlanta 10	PL5-4336
Ill	B. Roberts	10105 S Western Ave. Chicago 43	BE3-3895
Mass	Coakley Sales Office	148 Needham St. Boston 61	DE2-4800
Minn	H. M. Richardson & Co.	9 E 22nd St. Minneapolis 4	FE6-4078
Mo	M. E. Bettis Co.	3706 Broadway, Kansas City 11	LO1-0772
NJ	B. Rate	383 Washington Ave. Belleville	PL1-2300
Tex	Howell Sales, Inc.	235 SE 14th St. Grand Prairie	AN2-5153
Wash	R. S. Drake Associates	1817 Norman, Seattle 44	EA3-8545
	EKCO ELECTRONICS LTD. EKCO WKS. Southend-on-Sea, Essex, Eng		**SOUTHEND**
NY	American Tradair Corp.	34-01 30th St. L I C 6	EM1-1414
	ELCOR, INC.	**1225 W Broad St. Falls Church, Va**	**JE2-8850**
	ELDORADO ELECTRONICS CO.	**2821 10th St. Berkeley 10, Calif**	**TH1-4613**
Cal	C. Herrmann Associates	Box 1179, Palo Alto	DA6-6033
Fla	Col-Ins-Co. Inc.	5728 Precision Rd. Orlando	CH1-1581
Ill	B. Z. Rubin Co.	607 N Grove Ave. Oak Park	EU3-0171
Mass	Measurement Eqpt. Co. Inc.	Box 267, Wakefield	CR5-5770
Mich	B. Z. Rubin Co.	12838 Fenkell Ave. Detroit 27	
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis 30	PA6-2233
NJ	A & M Associates, Inc.	6 Sunnybrook Rd. Bernardsville	BA8-0699
NJ	Landfear Enterprises	165 Franklin Ave. Nutley 10	NO7-2900
NY	J. B. Lightstone	515 Comstock Ave. Syracuse	GA5-6704
Ohio	B. Z. Rubin Co.	515 E Grand Ave. Springfield	FA2-5893
Pa	H. E. Ransford Co.	5400 Clairton Blvd. Pittsburgh 36	TU4-3425
Tex	Dattronics, Inc.	3333 W Alabama, Houston 6	JA4-6561
	ELDORADO MINING & REFINING LTD. John St. Port Hope, Ont, Can		**TU5-4511**
	ELECTRIC AUTOLITE CO.	**Toledo 1, Ohio**	**CH3-3131**
Cal	Electric Autolite Co.	505 E Rosecrans Ave. Gardena	FA1-2184
Cal	Electric Autolite Co.	9716 Sunnyside St. Oakland	NE2-6200
Ill	Electric Autolite Co.	600 S Michigan Ave. Chicago	WE9-3144
Mass	Electric Autolite Co.	10 High St. Boston	HA6-0541
Mich	Electric Autolite Co.	1109 New Center Bldg. Detroit	TR5-2636
Mich	Electric Autolite Co.	3529 24th St. Port Huron	YU5-6131
Mo	Electric Autolite Co.	11726 Sappington Barracks Rd. St. Louis	VI3-0203
NY	Electric Autolite Co.	405 Lexington Ave. New York	OX7-1440
Ohio	Electric Autolite Co.	720 Babbitt Rd. Cleveland	AN1-1136
Ohio	Electric Autolite Co.	51 E Charlotte Ave. Cincinnati	FO1-3145
Tex	Electric Autolite Co.	Box 2375, Dallas	LA1-2289
Wis	Electric Autolite Co.	405 S Allen Rd. Waukesha	LI2-8255
	ELECTRIC BOAT DIV. GENERAL DYNAMICS CORP. Groton, Conn		
	ELECTRIC INDICATOR CO., INC. Camp Ave. Stamford, Conn		
Cal	G. S. Marshall Co.	2065 Huntington Dr. San Marino	RY1-6781
Fla	E. C. Raymund & Associates	Box 8215, St. Petersburg 38	WA1-9735
Ill	L. F. Green & Associates	5218 W Diversey Ave. Chicago	PA5-6824
Mass	G. M. Hathaway Electronics	238 Main St. Cambridge	KI7-0380
Mich	J. J. Orr Co.	Box 885, Grand Rapids	LE4-4029
Minn	L. F. Murphy Associates	1940 Hennepin Ave. Minneapolis 5	FR4-2380
NY	N. Allen, Inc.	Box 575, Binghamton	BI4261
NY	R. P. Kennedy Co.	182 Mayflower Dr. Rochester 18	BR1-6322
NJ	Angus-Sloane Associates	Moorestown	BE5-1906
Tex	Ammon & Champion Co.	2714 Bomar St. Dallas 4	FL7-3939
	ELECTRIC MACHINERY MFG. CO. 800 Central Ave. Minneapolis 13, Minn.		**FE9-6751**
	ELECTRIC STEEL FOUNDRY CO. 2141 NW 25th Ave. Portland 10, Ore		
	ELECTRIC TACHOMETER CORP. 68th & Upland Sts. Phila 42, Pa		**SA6-7723**
	ELECTRICAL & PHYSICAL INSTR. CORP. (EPIC)	**42-19 27th St. Long Island City 1, NY**	**ST4-6389**
	ELECTRO-CERAMICS, INC.	**2645 S 2 W, Salt Lake City 15, Utah**	**HU6-7481**
NY	J. D. Buttolph	59 Pinecliff Rd. Chappaqua	CE8-8331
	ELECTRO DYNAMICS DIV. GEN. DYNAMICS CORP.	**163 Ave. A & North St. Bayonne, NJ**	**HE7-1234**
	ELECTRO ENGINEERING WORKS 401 Prado St. San Leandro, Cal		
Cal	Penwarden/Dailey Associates	7311 Van Nuys Blvd. Van Nuys	ST2-4920
Mo	Thomson Engineering Service	8230 Forsyth, St. Louis 5	PA7-7705
Tex	Thomson Engineering Service	2520 Oak Lawn, Dallas	LA6-8741
	ELECTRO-MECHANICAL RESEARCH INC. Box 3041, Sarasota, Fla		**RI6-1148**
	ELECTRO MEDICAL LAB., INC. South Woodstock 6, Vt		**WO340**
	ELECTRO-NUCLEONICS INC.	**Box 707, Caldwell, NJ**	**CA6-1923**

ELECTRO PRODUCTS LABS. 4501 N Ravenswood Ave. Chicago 40, ILL. LO1-1707

Cal	King Engineering Co.	5321 Hollywood Blvd. Los Angeles	HO4-7166
Colo	Hyde Electronics Associates	888 S Lipan St. Denver 23	WE6-3455
Fla	Lynch-Gentry Associates	406 Daley Dr. Fort Myers	WE6-2181
Ill	Crossley Associates, Inc.	2501 W Peterson Ave. Chicago 45	BR5-1600
Mass	Abbett & Hustis, Inc.	1245 Highland Ave. Needham 92	HI4-5470
Mich	Electro-Mation Associates, Inc.	4012 E 9 Mile Rd. Warren	JE9-1420
NJ	Sensory, Inc.	10 New St. Morristown	
NY	E. A. Ossman & Associates	830 Linden Ave. Rochester 25	LU6-4940
Ohio	F. R. Sharp Co.	2138 Lee Rd. Cleveland 18	FA1-4200
Pa	C. A. Briggs Associates	220 S Easton Rd. Glenside	TU7-4080
Tex	Whitson Engineering Co.	2680 Freewood St. Dallas 20	
Wash	F. H. Haight Co.	3212 Eastlake, Seattle 2	EA2-1818

ELECTRO-PULSE, INC. ..... 6711 S Sepulveda Blvd. LA 45, Cal DR4-1861

Cal	T. L. Snitzer Co.	5354 W Pico Blvd. Los Angeles 19	WE8-2074
Cal	T. L. Snitzer Co.	510 S Mathilda Ave. Sunnyvale	RE6-6733
Fla	E. G. Holmes Associates	1220 Edgewater Dr. Orlando	CH1-2128
Ga	E. G. Holmes & Associates	4969 Roswell Rd. NE, Atlanta 5	BL5-6660
Mich	Electro Sales Associates	36500 Weideman Rd. Mat. Clemens	HO8-2461
Minn	Engineering Products Associates	1821 University Ave. St. Paul 4	MI6-3443
Mo	L. Mark Associates	Box 8467, Kansas City 14	NI2-3313
NY	Burlingame Associates, Ltd.	514 University Bldg. Syracuse	SY2-6253
NY	Burlingame Associates, Ltd.	510 S Fulton Ave. Mt. Vernon	MO5-4730
Tex	Wallace Associates	2679 Freewood Dr. Dallas 20	FL7-7080
Wash	H. Levinson Co.	1117 - 2nd Ave. Seattle 1	MA2-5433

ELECTRO-SCIENTIFIC INDUSTRIES ..... 7524 SW Macadam Ave. Portland, Ore CH6-3331

ELECTRO-THERMAL INDUSTRIES, INC. 57 S Main St. Pearl River, NY. ... PE5-4081

ELECTRO-WATT ELEC. & IND. MGMT. CO., LTD. Talacker 16, Zurich 22, Swit.

ELECTROFLOMETERS CO. LTD. Abbey Rd. Park Royal, NW 10, London, Eng EL7641

Scot	Electroflo Meter Co. Ltd.	634 Sauchiehall St. Glasgow C. 2.	DO7724

ELECTROMECHANICAL PRODUCTS Markham Rd. Agincourt, Ont, Can AX3-7011

ELECTRON PRODUCTS DIV. MARSHALL INDUSTRIES ..... 430 N Halstead St. Pasadena, Cal MU1-0666

Cal	G. S. Marshall Co.	801 Woodside Rd. Redwood City	EM6-8214
Fla	E. C. Raymund & Assoc. Inc.	Box 8215, St. Petersburg	WA1-9735
Ill	Rockford Controls Co.	Box 671, Glen Ellyn	HO9-6016
Mass	Electronic Component Engineers	Box 72, N Abington	TR8-3072
Minn	G. E. Arneson & Co.	1407 Holdridge Ln. Wayzata	MI4-5844
Mo	M. E. Bettis Co.	3706 Broadway, Kansas City 11	LO1-0772
NJ	Angus-Sloane Associates, Inc.	13 E Main St. Moorestown	WE5-1900
NY	L. Jacobson & Co.	1366 Kenmore Ave. Buffalo 23	DE0442
Ohio	Weller-Rahe Co.	Box 212, Worthington	TU5-7819
Tex	G. Weinreich Associates	1210 Old Gate Ln. Dallas 18	DA1-2800
Wash	N. R. Schultz Co.	4227 Airport Way, Seattle	SE8650
Can	Electromechanical Products	Markham Rd. Agincourt, Ont.	AX3-7011

ELECTRONIC ASSISTANCE CORP. 20 Bridge Ave. Red Bank, NJ SH7-5100

Cal	M. B. Gilbert Co. Inc.	Box 45824, Los Angeles 45	OR8-3418
Ohio	H. Egbert	328 Claranna Ave. Dayton	AX3-9767
Pa	I. Kessler	31 Larkspur Rd. Levittown	WI5-0350

ELECTRONIC ASSOCIATES, INC. Long Branch, N J CA9-7100

Cal	Electronic Associates, Inc.	1500 E Imperial Hwy. El Segundo	EA2-3124
Ill	Electronic Associates, Inc.	101 S Pine St. Mt. Prospect	CL5-6070
Tex	Electronic Associates, Inc.	4515 Prentice St. Dallas 6	EM1-6165

ELECTRONIC ASSOCIATES, LTD. 4616 Yonge St. Willowdale, Ont. Can BA1-1126

NJ	United States Radium Corp.	Box 246, Morristown	JE9-4000

ELECTRONIC COMMUNICATIONS, INC. 1501 72nd St. N, St. Petersburg, Fla DI7-1121

Cal	Electronic Communications, Inc.	4475 Vineland Ave. N Hollywood	TR7-0738
Cal	Advanced Technology Corp.	5960 Hollister Ave. Goleta	WO7-3465
DC	Electronic Communications, Inc.	1725 Eye St. NW, Washington	FE3-9255
Md	Electronic Communications, Inc.	1830 York Rd. Timonium	VA5-5130
Mass	Electronic Communications, Inc.	Box 752, Boston 2	OL5-0686
NJ	Electronic Communications, Inc.	Box 172, Teterboro	AT8-2225
NJ	Air Associates, Inc.	Box 162, Teterboro	AT8-1500
Ohio	Electronic Communications, Inc.	2743 Ironwood Dr. Springfield	FA2-3868
Tex	Electronic Communications, Inc.	3214 Lovefield Dr. Dallas 22	FL2-4089

ELECTRONIC ENGINEERING CO. of CAL. 1601 E Chestnut St. Santa Ana, Cal KI7-5501

Ariz	Western Eng. Co.	8905 N 17th Ave. Phoenix	WI4-0431
Cal	Key Electronics, Inc.	8533 Sunset Blvd. Hollywood 46	OL5-9140
Cal	Mardix	133 Salina Dr. Los Altos	WH8-0544
Conn	White Sales Co.	Box 122, Berlin	BA4-0423
DC	L. M. Baxter	1101 Vermont Ave. NW, Washington 5	SO5-1353
Mass	White Sales Co	945 Great Plain Ave. Needham 92	HI4-3676
NY	K. E. Hughes Co.	4808 Bergenline Ave. Union City	UN7-3204
Pa	K. E. Hughes Co.	101 N 33rd St. Philadelphia 4	EV6-3130

ELECTRONIC INSTRUMENTS LTD. Lower Mortlake Rd. Richmond, Surrey, Eng RI5656

NY	H. H. Sticht Co., Inc.	27 Park Pl. New York 7	RE2-8163
NY	Shriro Trading Corp.	276 4th Ave. New York 10	GR7-7500
Pa	The Milton Roy Co., Ltd.	1300 E Mermaid Ln. Philadelphia 18	CH7-8000

ELECTRONIC MEASUREMENTS CO., INC. Lewis St. & Maple Ave. Eatontown, NJ LI2-0300

Ala	Roy Attaway Co.	2315 Bob Wallace Ave. SW, Huntsville	534-2-2811
Cal	J. P. O'Halloran & Assoc.	11636 Ventura Blvd. N Hollywood	TR7-0173
Colo	Parrish Electronics	2130 S Albion, Denver 22	SH6-9455
DC	The Jay Co.	2420 Wilson Blvd. Arlington, Va	JA4-6767
Ill	R. E. Stemm	5681 W Lake St. Chicago 44	ES9-2700
Mass	G. Gregory Associates	7 Erie Dr. Natick	OL5-1330
Mo	G. Fixman Engineering Co.	8160 Stanford Ave. St. Louis	PA5-5219
NY	C. A. Winick Co.	926 Riverview Rd. Schenectady 9	HI5-1448
NY	Martin Electronic Mktg. Orgn.	69 Greenwich St. Hempstead	IV3-4060
Pa	Holdsworth & Co.	426 S Springfield Ave. Clifton Hts	MA6-8300
Tex	Engineering & Equipment Co.	Box 13311, Fort Worth	WA3-7386
Wash	G. M. Gillett & Associates	4621 7th Ave. S, Seattle	MA3-5755

ELECTRONIC PROCESSES CORP. 436 Bryant St. San Francisco, Cal EX7-3881

Cal	A. F. Hogland	557 E Walnut St. Pasadena	MU1-0300
Ill	B & G Automation Sales	31 W 159th St. Harvey	
Ohio	Ohio Instrument Co.	7316 Winston Churchill Dr. Dayton	CH4-2744

ELECTRONIC RESEARCH ASSOCIATES INC. 67 Factory Pl. Cedar Grove, NJ CE9-3000

Cal	Tech-Ser, Inc.	3540 Wilshire Blvd. Los Angeles	
DC	A & M Assoc.	1145 19th St. NW, Washington 6	
Fla	Col-Ins-Co.	5728 Precision Dr. Orlando	
Mass	Technical Instruments Inc.	90 Main St. Reading	
Minn	The Heimann Co.	1711 Hawthorne Ave. Minneapolis	
Mo	Kay Sales Co.	2600 Grand Ave. Kansas City	
NJ	L. A. Garten & Assoc.	375 Passaic Ave. Caldwell	
NY	M. P. Andrews Co.	Fayetteville	
Tex	Airep Engineering Co.	Box 9555, Dallas	
Wash	Stanley Enterprises	127 River St. Seattle	

ELECTRONIC SYSTEMS DEVELOPMENT CORP. ..... 1484 E Main St. Ventura, Cal MI8-1827

ELECTRONIC TUBE CORP. ... 1200 E Mermaid Ln. Phila 18, Pa CH7-6800

ELECTRONICS CORP. OF AMERICA 1 Memorial Dr. Cambridge 42, Mass ... UN4-5000

Cal	Electronics Corp. of America	1485 Bayshore Blvd. San Francisco 24	JU4-7078
Ill	Electronics Corp. of America	2222 Prudential Plaza, Chicago	WH4-6368
NY	Electronics Corp. of America	30 Rockefeller Plaza, New York	JU6-8200
Ohio	Electronics Corp. of America	3100 Wooster Rd. Cleveland 16	ED1-4124
Pa	Electronics Corp. of America	5100 State Rd. Drexel Hill	CL9-1015

ELGIN SOFTENER CORP. ..... 179 N Grove Ave. Elgin, Ill SH2-7210

Cal	Samson Sales Co.	420 Market St. San Francisco	EX2-7070
Cal	Elgin Softener Products	9047F E Florence Ave. Downey	WA3-1318
Ga	S. C. May	3551 Ivy Rd. Atlanta	CE7-1162
Ill	F. M. Nourse Assoc.	664 N Michigan Ave. Chicago	SU7-9592
Ind	H. T. Nancrede Co.	1537 Central Ave. Indianapolis	ME4-1371
Md	Lamb Engineering Co.	2125 Maryland Ave. Baltimore	BE4-4740
Mass	Benson-Funk, Inc.	437 Cherry St. W Newton	WO9-9880
Mich	W. A. DaLee, Inc.	9190 Roselawn Ave. Detroit	WE3-4430
Mo	F. S. Crook, Inc.	1004 Market St. St. Louis	CH1-3511
NY	Seco Engineering Sales Co.	87 150th St. Jamaica	AX7-1134
Pa	Lanco Engineering Sales Co.	409 Wilford Bldg. Philadelphia	EV6-8835
Tenn	R. E. Gardner & Co.	1121 Church St. Nashville	AL5-0621

ELION INSTRUMENTS INC. .... 430 Buckley St. Bristol, Pa WI9-2700

Colo	Williams & Associates	2263 S Albion St. Denver 22	SK6-9403
Fla	Courtney Cummings	1109 De Narvaez Ave. Bradenton	
Mass	J. M. Devine Co.	63 Prince St. Needham 92	HI4-2764
Minn	Wood Clemons	1645 Hennepin Ave. Minneapolis 3	FE9-0707
NJ	M. E. Maxwell Co.	45 N Broad St. Ridgewood	
NM	Williams & Assoc.	3221 Silver Ave. SE, Albuquerque	
Ohio	G. Outterson	15104 Detroit Ave. Cleveland	AC1-8666
Ore	B. C. Porter Co.	Box 7854, Portland 12	AT4-1718
Pa	J. G. Griffith Co.	Union Trust Bldg. Pittsburgh	AT1-3853
Utah	Williams & Assoc.	320 E 4th S, Salt Lake City	
Wash	B. C. Porter Co.	1209 Poplar Pl. Seattle	EA3-8330
Can	Viditon Corp.Ltd.	850 Belfast Rd. Elmvale Acres, Ottawa	

ELLIS & WATTS PRODS. INC. Monroe at Spencer Cincinnati 36, Ohio

ELMES/KING DIV. AMERICAN STEEL FOUNDRIES 1150 Tennessee Ave. Cincinnati 29, Ohio RE1-9210

ELOMAG SPRL ..... 2 Ave. Wellington, Bruxelles 18, Belg

EMERSON & CUMING, INC. .... 59 Walpole St. Canton, Mass CA6-3300

Cal	McCarthy Associates, Inc.	1055 E Walnut St. Pasadena	
Fla	Dbm Research Corp.	Stoddard Bldg. Cocoa Beach	
Ill	Conzens & Cudahy, Inc.	125 Old Orchard Arcade, Skokie	
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis 30	
NJ	R. E. Hall	R. D. Myersville Rd. Chatham	
NY	R. L. Johnson	52 Elm St. Huntington	
NY	Markle & MacNeill	100 Wellwood Dr. Fayetteville	
NC	J. L. Highsmith & Co.	3733 Monroe Rd. Charlotte 5	
Ohio	Midwest Sales Co.	3219 W 117th St. Cleveland 11	
Pa	Andco Sales-Engineering, Inc.	5823 Greene St. Philadelphia 44	
Tex	Lawrence Sales Co.	Box 13026, Dallas 20	
Wash	R. Johnston Co.	1011 E 69th St. Seattle 15	

EMERSON PLASTICS CORP. ... 1383 Seabury Ave. Bronx 61, NY SY2-4400

EMERSON RADIO & PHONOGRAPH CORP. GOVT. ELECTRONICS DIV. 1140 East-West Hwy. Silver Spring, Md... JU8-7273

Cal	H. L. Schenck	10056 Balboa Blvd. Northridge	DI9-1133
NJ	G. J. Barton/M. M. Schaefer	14th & Coles Sts. Jersey City 2	
Ohio	W. H. Shaw	Box 2207, Kettering Br. Dayton 29	AX8-3957

ENDECOTTS (FILTERS) LTD... Lombard Rd. London, SW19, Eng ... LB121/3

ENDEVCO CORP. ... 161 E California Blvd. Pasadena, Cal ... SY5-0271

Cal	Endevco Corp.	201 Town & Country Vlge. Palo Alto	DA6-3192
Ill	Endevco Corp.	4544 Central Ave. Highland Park	LA2563
NJ	Endevco Corp.	195 Nassau St. Princeton	WA4-3297
Ohio	Endevco Corp.	1373 Grandview Ave. Columbus 12	HU6-6621
Pa	Endevco Corp.	481 Snowball Dr. Levittown	WI5-5575

ENERGY CONTROL CO., INC. .. 5 Beekman St. New York 38, NY ... BA7-0457

NJ	Energy Control Co. Inc.	472 E Westfield Ave. Roselle Park	CH1-1300
NY	Energy Control Co. Inc.	9 Highland Ave. Albany 5	IV2-2938

ENGELHARD INDUSTRIES, INC. 113 Astor St. Newark 2, NJ ... BI2-2700

Cal	Engelhard Industries, Inc.	760 Market St. San Francisco	GA1-1447
Cal	Engelhard Industries, Inc.	1111 Wilshire Blvd. Los Angeles	HU2-1800
Fla	Engelhard Industries, Inc.	102 S Orange Ave. Orlando	GA2-3682
Ill	Engelhard Industries, Inc.	55 E Washington St. Chicago	FI6-8288
Mich	Engelhard Industries, Inc.	634 New Center Bldg. Detroit 2	TR1-1370
NY	Engelhard Industries, Inc.	477 Madison Ave. New York	PL1-4242
Tex	Engelhard Industries, Inc.	1807 Commerce St. Dallas 1	RI7-0206

ENGINEERED ELECTRONICS CO. 1441 E. Chestnut Ave. Santa Ana, Cal ... KI7-5651

Ariz	Western Engineering Co.	8905 N 17th Ave. Phoenix	WI4-0431
Cal	Electronic Engineering Assoc.	1295 Laurel St. San Carlos	LY3-2189
DC	F. R. Jodon, Inc.	8510 Beech Tree Rd. Washington 14	EM5-1515
Fla	Lynch-Gentry, Inc.	406 Danley Dr. Page Park, Fort Myers	WE5-2181
Ga	Col-Ins-Co-Inc.	2345 Ewing Dr. Atlanta	CE7-1494
Ill	R. E. Stemm	5681 W Lake St. Chicago 44	ES9-2700
Mass	White Sales Co.	945 Great Plain Ave. Needham 92	HI4-3676
NJ	K. E. Hughes Co.	4808 Bergenline Ave. Union City	UN7-3204
Ohio	M. P. Odell Co.	26614 Center Ridge Rd. Westlake	TR1-8000
Tex	Ind. Assoc. Electronics, Inc.	5007 E Lancaster, Fort Worth	JE1-1132
Can	Electronic Associates, Ltd.	4616 Yonge St. Willowdale, Ont	BA1-1126
For	Ad. Auriema, Inc.	85 Broad St. New York 4	BO9-7750

ENGINEERING APPLIANCES LTD. 3 Buckingham Pl. London SW1, Eng

ENGIS EQUIPMENT CO. 431 S Dearborn St. Chicago, Ill. ... HA7-3223

Cal	D. E. Williams	1404 W Hadley St. Whittier	OX5-9320
Colo	L. J. Esbenson Co.	Box 7066, Denver 18	EA2-7733
Ga	D. G. Machinery & Gage Co.	Box 13135, Sta K, Atlanta 24	ME6-1484
Minn	W. R. Hammond Co.	1419 Washington Ave. S, Minneapolis 4	FE8-8945
Mo	Stanley Ind. Tool Co.	338 N Vandeventer Ave. St Louis 8	OL2-3423
Mo	Haman Machy. & Supply Co.	1823 Walnut St. Kansas City	VI2-3558
NJ	Engis Eastern Corp.	164 Walter Ave. Hasbrouck Heights	AT8-4111
NY	Precision Service Co.	East Lake Rd. Skaneateles	OV5-7715
NC	Crotts & Saunders Engrg. Inc.	235 N Main St. Winston-Salem	PA4-0163
Ohio	G. Parsons	205 Keith Bldg. Cincinnati 2	CH1-7629
Pa	P. A. Patterson Co. Inc.	3133 N Broad St. Philadelphia 32	SA9-1250
Wash	Dow Industrial Co.	2410 1st Ave. S, Seattle 4	MA3-6370

ENGLISH ELECTRIC CO. LTD. Eng. Elec. Hse. Strand, London, WC2, Eng

NY	English Electric Exp & Trad Co Ltd.	750 3rd Ave. New York 17	MU7-0303

ENGLISH STEEL CORP. LTD. RIVER DON WKS. Sheffield 9, Yorkshire, Eng

NY	A. Milne & Co.	67 W 44th St. New York 36	OX7-1557

ENTHOVEN & SONS, LTD. H. J. South Pl, London EC2, England

EPIC, INC. ... 150 Nassau St. New York 38, NY ... DI9-2470

EPSCO, INC. ... 275 Massachusetts Ave. Cambridge 39, Mass ... UN4-4950

Cal	Moxon Electronics Corp.	489 S Robertson Blvd. Beverly Hills	BR2-9311
Colo	Hytronic Measurements	1295 S Bannock, Denver	PE3-3701
Ga	Scientific Sales Eng. Co.	2162 Piedmont Rd. NE, Atlanta 9	TR3-2475
Ill	L. F. Green & Associates	5218 Diversey Ave. Chicago 39	AV8-6824
Mass	Broger Instrument & Sales	48 Pearl St. Brookline	BE2-4504
NY	Wild & Associates, Inc.	1519 Northern Blvd, Roslyn	MA1-8660
Ohio	Tower Engineering Co.	3898 Linden Ave, Dayton	CL6-0931
Wash	Comptronics	2 Hanford St. Seattle	MA4-5135
Can	D. Randall Canada Ltd.	126 Manville Rd. Scarborough, Ont.	OX8-3081
For	Hudson Randall Intl.	6 Pawcatuck Ave, Westerly, RI	LY5-5757
Jap	Boswell International	1-10 Yurakn-Cho, Chiyoda-Ku, Tokyo	

EPSCO INC. COMPONENTS DIV. 275 Massachusetts Ave. Cambridge 39, Mass

Cal	Moxon Electronics	489 Robertson Blvd. Beverly Hills	BR2-9311
Colo	Hytronic Measurements, Inc.	1295 S Bannock St. Denver	PE3-3701
Conn	Geist-Hotz, Inc.	200 5th Ave. Stamford	DA4-7300
DC	J. A. Mount & Co.	National Press Bldg. Washington	DI7-1349
Ill	L. F. Green & Associates	5218 W Diversey Ave. Chicago 39	AV8-6824
Mass	Geist-Hotz, Inc.	14 Wedgewood Rd. Natick	OL3-6510
Mo	Design & Sales Engineering Co.	25 N Meramec, St. Louis	PA1-6403
NY	L. A. Garten & Associates	375 Passaic Ave. Caldwell, NJ	CA6-7800
NY	SBM Associates, Inc.	969 Clinton Ave. S, Rochester 20	GR3-6506
Ohio	Tower Engineering	3898 Linden Ave. Dayton 32	CL6-0931
Tex	Acsi Engineering Co.	Box 35573, Dallas 35	
Can	D. Randall	126 Manville Rd. Scarborough, Ontario	OX8-3081

ERCONA CORP. SCIENTIFIC INSTRUMENT DIVISION ... 16 W 46th St. New York 36, NY ... CI5-3840

ERICSSON TELEPHONES LTD. High Church St. New Basford, Nott. Eng ... HO75115

Cal	Solartron Inc.	10761 Burbank Blvd. N Hollywood	
NJ	Solartron Inc.	530 Cooper St. Camden 2	

ERIE RESISTOR CORP. ... 644 W 12th St. Erie, Pa ... GL6-8592

Cal	Erie Resistor Corp.	2815 W Florence Ave. LA 43	PL3-4511
Cal	D. H. Ross Co.	584 El Camino Real, San Carlos	LY1-4411
Colo	A. I. Williams Co.	2263 S Albion St. Denver 22	MA3-0343
Fla	Erie Resistor Corp.	420 S Phelps Ave. Winter Pk.	MI4-0954
Ill	Erie Resistor Corp.	5809 W Diversey Ave. Chicago 39	NA2-6080
Ind	Erie Resistor Corp.	4617 Euclid Ave. Fort Wayne	HA9-669
Mass	Erie Resistor Corp.	10-R Muzzey St. Lexington 73	VO2-8680
Mo	Collins & Havercamp Assoc.	6825 N Baltimore, Kansas City 16	GL34-497
NJ	Erie Resistor Corp.	595 Broad Ave. Ridgefield	WH3-500
NJ	Erie Resistor Corp.	300 Broadway, Camden	WO6-2100
Tex	Branum Sales, Inc.	Box 14348, Dallas 7	CH7-7128

ERSKINE-HEALY, INC. ... 420 St. Paul St. Rochester 5, NY ... LO2-7980

Cal	California Safety & Supply Co.	996 N 4th St. San Jose 12	CY3-4197
Can	H. Glove Co.	955 Amherst St. Montreal 24, Quebec	LA1-0297

ERTEL ENGINEERING CORP. Kingston 31, NY ... FE1-4552

NY	Ertel Engrg. Corp.	40 W 48th St. New York 36	CA6-6083

ESCHER WYSS LTD. ... Zurich, Switzerland ... ZU420120

ESSO STANDARD DIVISION HUMBLE OIL & REFNG CO... 15 W 51st St. New York 19, NY ... PL7-1200

Ill	Oklahoma-Pate Div.	3460 W Leeds Pl. Milwaukee 15	
La	Esso Standard Div.	1410 Canal St. New Orleans	
Md	Esso Standard Div.	7720 York Rd. Baltimore 4	
Mass	Esso Standard Div.	135 Clarendon St. Boston 17	
Mont	Carter Div.	Box 2514, Billings	
NJ	Esso Standard Div.	500 N Broad St. Elizabeth 3	
NY	Esso Standard Div.	Hutchinson River Pkway, Pelham	
NC	Esso Standard Div.	1600 Woodlawn Rd. Charlotte 9	
Pa	Esso Standard Div.	City Line Ave. & Esso Rd. Bala-Cynwyd	
Tenn	Esso Standard Div.	Union Ave. at Bellevue, Memphis 1	
Tex	Humble Div.	Prudential Bldg. Houston	
Va	Esso Standard Div.	Broad & Hamilton Sts. Richmond 21	

ESTERLINE-ANGUS CO. ... Box 596, Indianapolis 6, Ind ... CH6-3318

Ariz	J. E. Redmond Supply Co.	Box 869, Phoenix	AL4-8471
Cal	T. R. Routh Co.	Box 1056, Burlingame	DI2-4147
Cal	Brenner-Fiedler & Assoc.	7563 Melrose Ave. Los Angeles 46	WE3-3811
DC	The Hildenbrand Co.	Box 1060, Fairfax, Va	CR3-2334
Ill	Murphy & Dickey	537 S Dearborn St. Chicago 5	HA7-7968
Mich	E. B. Anderson Co.	12810 Puritan Ave. Detroit 27	UN2-7705
Mo	C. B. Fall Co.	11201 Longview Rd. Hickman Mills 34	BO1-6546
Mo	C. B. Fall Co.	317 N 11th St. St. Louis 1	CH1-2433
NY	T. A. Kenny	Box 266, Summit, NJ	CR3-7090
Pa	L. O. Morrow & Son	Schaff Bldg. Philadelphia 2	LO7-6421
Pa	W. H. Bollinger	Box 8088, Pittsburgh 16	LO1-2340
Wash	Shaffer & Nelson, Inc.	312 Occidental Ave. Seattle 4	MU2-0186

ETHYL CORP. ... 100 Park Ave. New York 17, NY ... OR9-2000

EVANS PIPE CO. ... 23 Newport Ave. Ulrichsville, Ohio

EVANS & SON (PORTSMOUTH) LTD. J. MARCYN WKS. ... Goldsmith Ave. Portsmouth, Hants, Eng ... PO32233

Ind	Doctor, Shah & Co. Ltd.	Swadeshi Mills Est. Bombay 4	
Jap	The Nisho Co. Ltd.	2, 1-chome Otemachi Chiyoda-ku Tokyo	

EVERSHIELD PRODUCTS, INC. Joppa, Md ... TR7-1515

Fla	Evershield Liquid Tile of Fla	618 NE 13th St. Fort Lauderdale	JA3-7596
Ill	Evershield Products Inc.	58 W Jackson Blvd. Chicago 4	WE9-0519
Md	Liquid Tile of Maryland	Towson 4	CL2-4119

EWBANK & PARTNERS LTD. .. 11 Grosvenor Pl. London, SW1, Eng ... BE8011

Can	Ewbank & Partners (Can) Ltd.	120 Eglinton Ave. E, Toronto 12, Ont.	HU7-2451
BWI	Ewbank & Partners, Ltd.	Ia Derrymore Rd. Kingston 10, Jamaica	KI6-8933
BWI	Ewbank & Partners, Ltd.	15/19 Tragarete Rd. Port of Spain	PO8539
Iraq	Ewbank & Partners, Ltd.	18/3/7 Mansour St. Karradat Mariam, Baghdad W	BA3-4383

EXACT WEIGHT SCALE CO. ... 538 E Town St. Columbus 15, Ohio ... CA4-6187

Cal	T. R. Manter Co.	489 6th St. San Francisco 3	
Cal	J. H. Downer	586 S Mateo St. Los Angeles 13	
Conn	D. Anderson	358 Mill St. Southington	
Ill	Exact Weight Scale Co.	608 S Dearborn St. Chicago 5	
Md	E. A. LeVay	120 W 25th St. Baltimore 18	
Mass	J. P. Fowler, Jr.	172 Mill Rd. Littleton	
Mich	Exact Weight Scale Co.	10539 Puritan Ave. Detroit 38	
Minn	E. P. Kennedy	211 N Washington Ave. Minneapolis	
NJ	Exact Weight Scale Co.	400 Delancy St. Newark 5	
NJ	W. W. Jones	214 St. James Pl. Merchantville 8	
Ohio	R. W. Grant	3093 Harris Rd. Brecksville	
Pa	J. N. Mansberger	3106 Lehigh St. Allentown	

EX-CELL-O CORP ... 1200 Oakman Blvd. Detroit 32, Mich ... TO8-3900

Cal	Ex-Cell-O Corp.	12200 S Bellflower Blvd. Downey	TO1-9261

Conn	Blaine E. Hendrickson	102 Farms Village Rd. Simsbury	OL8-4152
Conn	L. H. Hammond	333 N Steele Rd. W Hartford	JA3-0943
Fla	Industrial Associates, Inc.	3718 Watrous Ave. Tampa 9	TA8-5912
Kan	A. D. Swanson	9517 Hayes, Overland Park	NI2-4014
NC	Ex-Cell-O Corp.	Box 905, Black Mountain	MO9-8415
Ohio	Ex-Cell-O Corp.	951 Williams St. Lima	CA9-9015
Pa	R. B. Maley	8 Queen Ann Ln. Malvern	MA5763M

FABRI-TEK, INC. — **Box 156, Amery, Wis** — **CD8-7551**

Minn	Fabri-Tek Circuits	1111 Excelsior Blvd. Hopkins	WE8-2341

FACTORY SERVICE CO. — **4615 N 21 St. Milwaukee 9, Wis** — **HI5-2715**

FAFNIR BEARING CO. — **37 Booth Ave. New Britain, Conn** — **BA5-5151**

Cal	Fafnir Bearing Co.	2276 E 16th St. Los Angeles 21	LU1-6171
Cal	Fafnir Bearing Co.	20 Rollins Rd. San Francisco 24	OX7-1244
Ga	Fafnir Bearing Co.	506 Courtland St. NE, Atlanta 8	TR5-8135
Ill	Fafnir Bearing Co.	4640 N Olcott Ave. Chicago 31	UN7-8785
Mich	Fafnir Bearing Co.	14300 Puritan Ave. Detroit 27	BR3-3468
Minn	Fafnir Bearing Co.	1607 Hennepin Ave. Minneapolis 3	FE6-2635
NY	Fafnir Bearing Co.	39-38 59th St. Woodside 77	TW9-2000
NC	Fafnir Bearing Co.	119 W 29th St. Charlotte 6	ED4-8601
Ore	Fafnir Bearing Co.	1202 NW 17th Ave. Portland 9	CA7-0147
Pa	Fafnir Bearing Co.	4006 Old York Rd. Philadelphia 40	GL5-2506
Tex	Fafnir Bearing Co.	9000 Directors Row, Dallas 7	FL7-6568
Wash	Fafnir Bearing Co.	605 Spokane St. Seattle 4	MA2-4141

FAIRBANKS CO. THE — **393 Lafayette St. New York 3, NY** — **SP7-8800**

Alas	Hughes Alaska Co.	Box 4-1271, Anchorage	
Cal	A. Tuch & Associates	1200 N Flores St. Los Angeles	
Ga	The Fairbanks Co.	202 Division St. Rome	RO4-6701
Ill	The Fairbanks Co.	2600 Throop St. Chicago 8	CA5-3600
Mass	The Fairbanks Co.	520 Atlantic Ave. Boston 10	LI2-2000
NM	D. F. Ames	Box 6193, Sta. B, Albuquerque	
NY	The Fairbanks Co.	393 Lafayette St. New York 3	SP7-8800
Pa	The Fairbanks Co.	15 Stanwix St. Pittsburgh 22	CO1-1887
Tex	H. H. Paris Distributor, Inc.	1125 Rothwell St. Houston	CA5-0141
Utah	T. R. Brown & Associates	234 W 13th St. S, Salt Lake City 15	

FAIRBANKS, MORSE & CO. — **600 S Michigan Ave. Chicago 5, Ill** — **HA7-7100**

FAIRCHILD CAMERA & INSTR. CORP. DEFENSE PRODS. DIV. — **300 Robbins Ln, Syosset, NY** — **WE1-4500**

Cal	Fairchild Cam. & Instr. Corp.	611 E Washington Blvd. Los Angeles	RA3-5191
DC	Fairchild Cam. & Instr. Corp.	1625 Eye St. NW, Washington	NA8-7770
Ohio	Fairchild Cam. & Instr. Corp.	3rd National Bank Bldg. Dayton	BA2-7405

FAIRCHILD CONTROLS CORP. — **225 Park Ave. Hicksville, NY** — **WE8-5600**

Cal	Fairchild Controls Corp.	6111 E Washington Blvd. Los Angeles	RA3-5191
Cal	Cashin Tipton & Assoc.	3270 Rosecrans St. San Diego 10	AC2-5408
Colo	Barnhill Assoc.	1170 S Sheridan Blvd. Denver	WE3-4645
Fla	Col-Ins-Co.	5728 Precision Dr. Orlando	CH1-1501
Ill	B. Anderson & Assoc.	6414 W Higgins Ave. Chicago 31	SP4-4174
Mass	Near, Inc.	99 Highland Ave. Somerville	PR6-2262
Minn	W. Clemons Co.	1645 Hennepin Ave. Minneapolis 3	FE9-0707
Mo	Thompson Engrg. Co.	8230 Forsyth Blvd. St. Louis	PA7-7705
NY	Everett Sales Engr. Co.	154 Plandome Rd. Manhasset	MA7-7750
Tex	Southern Ind. Elec. Inc.	538 Braniff Bldg. Dallas	FL3-3901
Wash	Remco	321 E 45th St. Seattle	ME3-5658
Can	R. D. B. Sheppard	2036 Pr. Charles Rd. Ottawa, Ont	PA2-7152

FAIRCHILD SEMICONDUCTOR CORP. — **545 Whisman Rd. Mountain View, Cal** — **YO8-8161**

Cal	Fairchild Semiconductor Corp.	8833 Sunset Blvd. Los Angeles	OL5-6358
DC	Fairchild Semiconductor Corp.	1027 Cafritz Bldg. Washington 6	NA8-7770
Fla	Fairchild Semiconductor Corp.	4935 Susannah Blvd. Orlando	CR7-5610
Ill	Fairchild Semiconductor Corp.	6957 W North Ave. Oak Park	VI8-5985
Mass	Fairchild Semiconductor Corp.	19 Preston Beach Rd. Marblehead	NE1-4436
NY	Fairchild Semiconductor Corp.	600 Old Country Rd. Garden City	PI1-4770
NY	Fairchild Semiconductor Corp.	731 James St. Syracuse	GR2-5391
Pa	Fairchild Semiconductor Corp.	100 Old York Rd. Jenkintown	TU6-6623

FALK & CO. LTD., M. — **Emofco House, Reigate, Surrey, Eng.** — **RE5341**

La	Gamma Industries Inc.	2215 Ted Dunham St. Baton Rouge	DI2-3031

FALSTROM CO. — **7 Falstrom Ct. Passaic, NJ** — **PR7-0013**

FANSTEEL METALLURGICAL CORP. — **North Chicago, Ill** — **DE6-4900**

Cal	D. L. Owens	201 Town & Country Vlg. Palo Alto	DA1-3812
Cal	R. J. Parker	1015 Hope St. S Pasadena	MU2-2931
Colo	A. Bruins	2912 4th St. Boulder	HI2-4720
Fla	W. B. Wimberly Co.	532 S Ft. Harrison Ave. Clearwater	CL3-7072
Ga	J. M. Tull Metal & Supply Co.	285 Marietta St. NW, Atlanta	JA5-3871
Ill	F. R. Walker	3304 N Harlem Ave. Chicago 34	TU9-3200
Mass	W. B. Hill	339 Auburn St. Auburndale 66	DE2-8868
NJ	G. A. Cook	214 Main St. Hackensack	DI2-2878
Ohio	M. E. McCann	4125 Hamilton Ave. Cincinnati 23	LI2-1789
Ohio	H. E. Holmes	11750 Shaker Blvd. Cleveland 20	SK2-2900
Tex	D. Hjort	9745-A Harry Hines Blvd. Dallas 20	FL2-4028
Tex	R. C. Foltz	1511 Welch, Houston 19	

FARMER ELECTRIC PRODUCTS CO., INC. — **2300 Washington St. Newton Lower Falls, Mass** — **DE2-8383**

FARNELL INSTRUMENTS, LTD. LIGHT IND EST. York Rd. Wetherby, Eng — **WE2691**

Can	Instronics Ltd.	Box 51, Stittsville, Ontario	TA8-1253

FARREL-BIRMINGHAM CO. INC. — **Ansonia, Conn** — **RE4-3331**

Cal	Farrell-Birmingham Co. Inc.	2036 Santa Fe Ave. Los Angeles 21	LU5-3017
Ga	S. Budzik	710 Peachtree St. NE, Atlanta 8	TR6-1352
Ill	Farrell-Birmingham Co. Inc.	10725 S Western Ave. Chicago 43	PR9-3421
Ohio	Farrell-Birmingham Co. Inc.	665 W Market St. Akron 3	PO2-8871
Tex	Farrell-Birmingham Co. Inc.	860 A M&M Bldg. Houston 2	CA2-6242
Ital	Tomassini	Piazza della Republica 32, Milano	

FARRIS ENGINEERING CO. — **400 Commercial Ave. Palisades Park, NJ**

FASCO INDUSTRIES, INC. — **255 N Union St. Rochester 2, NY** — **HA6-1800**

Cal	Fasco Industries, Inc.	400 S Hiatt St. LaHabra	OW1-1751
Ill	Fasco Industries, Inc.	5306 W Lawrence Ave. Chicago 30	KI5-1418
Minn	Fasco Industries, Inc.	3418 E Lake St. Minneapolis 6	FA9-2808
Mo	Fasco Industries, Inc.	1110 S Brentwood Blvd. St. Louis 17	PA1-0866
NY	Fasco Industries, Inc.	420 Lexington Ave. New York 17	CR9-5370
Ohio	Fasco Industries, Inc.	333 Salem Ave. Dayton 6	BA3-7721
Tex	Fasco Industries, Inc.	4924 Greenville Ave. Dallas	EM3-2603

FEDERAL-MOGUL-BOWER BEARINGS, INC. — **11031 Shoemaker Ave. Detroit 13, Mich** — **WA1-0750**

Cal	National Seal Div.	Broadway @National Ave. Redwood City	EM6-3861
Cal	Microtech Div.	1201 N Arden Dr. El Monte	GI3-3081
Mich	Bower Roller Bearing Div.	3040 Hart Ave. Detroit 14	VA2-7300
Mich	Bearings Co. of America Div.	13836 Puritan Ave. Detroit 27	BR2-0820

FEEDBACK, LTD. — **1 The Broadway, Crowborough, Sussex, Eng** — **CR3566**

FEGLES CONSTRUCTION CO. — **2110 Nicollet Ave. Minneapolis, Minn** — **FE8-0623**

FEILER ENGINEERING & MFG. CO. — **8026 N Monticello Ave. Skokie, Ill** — **CO7-8280**

FELT PRODUCTS MFG. CO. — **7450 N McCormick Blvd. Skokie, Ill**

FELTERS CO. THE — **210 South St. Boston 11, Mass** — **LI2-7021**

Cal	Taylor Felt & Supply Co.	718 Mission St. San Francisco	
Cal	Acorn Mfg. Co.	2517 E Imperial Hwy. Los Angeles	
Ill	Felters Co.	4945 W Belmont Ave. Chicago 41	
Mich	Felters Co.	8-252 General Motors Bldg. Detroit 2	
Mo	Felters Co.	1602 Locust St. St. Louis 3	
NY	Felters Co.	1801 Empire State Bldg. New York 1	
Pa	Felters Co.	428 McClatchy Bldg. Upper Darby	
Tex	J. G. Mahler Co.	1314 Wood St. Dallas	

FENN MFG. CO. — **200 Fenn Rd. Newington, Conn** — **MO6-2471**

Cal	Machinery Sales Co.	2888 Leonis Blvd. Los Angeles	LU8-8111
Ill	E. Thompson	952 Pleasant St. Chicago	SU3-5227
NY	A. Silvers	441 Lexington Ave. New York 17	MU7-2469
Wash	Star Machinery Co.	241 Lander St. Seattle 4	MA3-0760

FENWAL INC. — **Pleasant St. Ashland, Mass.** — **TR5-6111**

Cal	Fenwal Inc.	111 S Burlington Ave. Los Angeles 57	DU6-3168
Colo	E. & M. Equipment Co.	2415 15th St. Denver 2	GL5-3651
Conn	Masten-Wright Corp.	2311 Whitney Ave. Hamden	AT8-1638
Fla	J. J. Galleher	617 Cleveland St. Clearwater	CL3-7706
Ga	Applebee-Church, Inc.	1958-A Monroe Dr. NE, Atlanta 36	TR5-7244
Ill	Fenwal Inc.	6525 West North Ave. Oak Park	EU9-0544
Ind	Couchman Conant Inc.	1400 N Illinois St. Indianapolis 8	ME5-5315
Iowa	Volco Co.	215 Kahl Bldg. Davenport	6-5235
La	J. P. Maguire Co.	3144 Paris Ave. New Orleans 19	EV2392
Md	T. H. Closs Co.	21 W Pennsylvania Ave. Towson 4	VA5-4445
Mich	Carman Adams, Inc.	17360 W 8th Mile Rd. Southfield	KE8-2100
Minn	Volco Co.	831 S 6th St. Minneapolis 4	FE8-3373

FERGUSON CO., H. K. — **1783 E 11 St. @ Walnut, Cleveland 14, Ohio** — **TO1-6400**

Cal	H. K. Ferguson Co.	120 Montgomery St. San Francisco 4	EX2-8965
NY	H. K. Ferguson Co.	150 E 42 St. New York 17	OX7-0900
Fr	H. K. Ferguson Co.	8 Rue Bellini, Paris 16	CA3992

FERNSTEUERGERAETE OHG — **68-72 Juliostr. Berlin-Britz, Germany** — **62 04 51**

FERRANTI ELECTRIC, INC. — **30 Rockefeller Pl. New York 20, NY**

Cal	R. Olander & Co.	6313 Santa Monica Blvd. Los Angeles 38	HO9-6313
DC	North American Engineering Co.	733 15th St. NW, Washington 5	EX3-0451
Fla	J. Neal & Co.	3931 SW 5th Terrace, Miami	HI4-1118
Ill	The Lowell Co.	4124 Skokiana Terr. Skokie	OR6-2063
Minn	Engineering Products Associates	1821 University Ave. St. Paul 4	MI6-3443
Mo	Zak-Cowan & Associates, Inc.	7730 Carondelet, St. Louis 5	PA7-8589
NJ	G. Spanos Associates	45 Kincaid Dr. Yonkers, NY	SP9-1559
NY	Everett Sales Eng. Co.	154 Plandome Rd. Manhasset	MA7-7750
NY	D. S. Launt	Box 184, Eastwood Sta. Syracuse 6	HE7-8181
Ohio	S. Levin & Associates	6252 Mayfield Rd. Cleveland 24	HI2-8340
Tex	N. S. Brown Associates	5852 Boca Raton Dr. Dallas 30	EM3-3698

FERRANTI-PACKARD ELECTRIC LTD. — **Industry St. Toronto 15, Ont. Can** — **RO2-3661**

NY	Ferranti Electric, Inc.	Rockefeller Plaza, New York	

FIBROUS GLASS PRODUCTS, INC. SUB. PALL CORP. — **Alpa Plaza, Hicksville, NY** — **OR1-3600**

FIELDEN ELECTRONICS, LTD. — **Paston Rd. Wythenshawe, Man 22, Eng**

NY	Fielden Electronics Inc.	Box 402, Huntington	MY2-6045

FILTRONICS INC. — **Box 280 Cowell, Cal** — **MU5-6615**

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	FINE CHEMICAL CO.	**250 W 57th St. New York 19, NY**	**PL7-4428**
	FINNELL SYSTEM INC.	**500 East St. Elkhart, Ind**	**JA2-0586**
Cal	A. Super	2996 W Pico Blvd. Los Angeles	RE5-7538
DC	C. McCarthy	318 Randolph Pl. NE, Wash	AD2-2007
Ill	O. A. Minard	28 N Laramie, Chicago	ES8-6040
Mass	J. P. Coster	441 Tremont St. Boston 16	HA6-8111
Mich	F. C. Poley	1346 Broadway, Detroit	WO1-9772
Mo	J. S. Woodley	4971 Washington Ave. St. Louis	FO7-3299
Pa	V. L. Watson	413 Commonwealth Annex, Pittsburgh 22	CO1-4595
SC	H. H. Dickson	27 Byrd Blvd. Greenville	CE2-6905
	FIRTH-DERIHON STAMPINGS LTD.	**Dale Rd. N Darley Dale N Matlock, Derby, Eng**	**SH4-2051**
Mass	Centrax Limited	31 St. James Ave. Boston	LI2425
Can	Service Steel & Eng. Ltd.	621 Parkdale Ave. N. Hamilton	LI9-3519
Eng	T. Firth & J. Brown Ltd.	11 Hamilton Pl. London W.1	GR8761
	FIRTH STERLING INC.	**3113 Forbes Ave. Pittsburgh 30, Pa**	**MU2-4600**
Ala	Firth Sterling, Inc.	1824 Huntsville Rd. Birmingham 1	FA4-0627
Cal	Firth Sterling, Inc.	2900 S Vail Ave. Los Angeles 22	RA3-8736
Conn	Firth Sterling, Inc.	Box 117, Elmwood Br. Hartford 10	JA3-5266
Ill	Firth Sterling, Inc.	3415 North Ave. Melrose Park	FI4-5510
Mich	Firth Sterling, Inc.	8330 W Chicago Blvd. Detroit 4	WE3-1023
NJ	Firth Sterling, Inc.	221 Sheffield St, Mountainside	AD2-7710
Ohio	Firth Sterling, Inc.	2601 St. Clair Ave. Cleveland 14	TO1-5180
Tex	Firth Sterling, Inc.	829 S 75th St. Houston 23	WA1-2137
	FISCHER & PORTER CO.	**50 Warminster Rd. Warminster, Pa**	**OS5-6000**
Cal	B. A. Artz	130 Orangethorpe Way, Anaheim	LA6-7741
Colo	J. M. Bush	2133 S Bellaire, # 7, Denver 22	SK6-7240
Ill	T. A. Rose	1205 S 8th Ave. Maywood	FI5-2003
Md	A. Beehler, Jr.	7307 York Rd. Towson 4	
Mass	R. A. Klucken	1233 Highland Ave. Needham 92	HI4-5750
Mich	J. W. Matz	22750 Woodward Ave. Detroit 20	LI5-3552
Mo	Durkin Equipment Co.	9834 Clayton Rd. St. Louis 24	WY3-2092
NY	D. T. Cusack	141 Main Ave. Clifton, NJ	GR2-8500
Pa	C. J. Levis	6 & Fayette Sts. Conshohocken	TA8-2464
Tex	W. G. Nash	4631 Insurance Ln. Dallas 5	LA6-3869
Utah	Wayne Wiscomb Co.	Box 19, Sugarhouse Sta. Salt Lake City 6	EL5-9563
Wash	C. J. Smedsrud	1000-4th Ave. S, Seattle 4	MU2-4442
	FISH-SCHURMAN CORP.	**70 Portman Rd. New Rochelle, NY**	**NE6-1300**
	FISHER GOVERNOR CO.	**Box 307, Marshalltown, Iowa**	**5561**
Cal	B. R. Jones & Co.	2334 E 8th St. Los Angeles 21	MA7-1867
Ga	J. M. Smither & Co.	Box 11873, Atlanta 5	CE7-6378
Ill	General Meters & Controls Co.	205 W Wacker Dr. Chicago 6	AN3-7050
Md	Rhodes Controls Co.	2011 N Charles St. Baltimore 18	HO7-5371
Mass	C. B. Petty & Co.	50 Kearney Rd. Needham Heights 94	HI4-1700
Mich	DuBois-Webb Co.	Box 5217, Detroit	BR3-0860
Mo	H. D. Hale & Co.	8118 Rosalie Ave. St. Louis 17	MI7-2838
NY	Crabbe & Stebbin Co. Inc.	Box 449, Englewood Cliffs, NJ	LO8-5513
Ohio	A. E. Ehrke & Co.	Box 4538, Cleveland 24	HI2-8040
Pa	C. B. Ives & Co. Inc.	Box 316, Narberth	TR7-9506
Tex	Puffer-Sweiven, Inc.	Box 22203, Houston 27	GY4-5841
Wis	W. D. Ehrke & Co. Inc.	1844 W Atkinson Ave. Milwaukee 6	HI4-7630
	FISHER SCIENTIFIC CO.	**709 Forbes St. Pittsburgh 19, Pa**	**EX1-1330**
Ill	Fisher Scientific Co.	1458 N Lamon Ave. Chicago 51	CO1-1221
La	Fisher Scientific Co.	4543 North Blvd. Baton Rouge	DI8-3616
Md	Fisher Scientific Co.	7722 Woodbury Dr. Silver Spring	JU7-7000
Mass	Fisher Scientific Co.	461 Riverside Ave. Boston 35	EX5-7800
Mo	Fisher Scientific Co.	2850 S Jefferson Ave. St. Louis 18	MO4-2624
NY	Fisher Scientific Co.	633 Greenwich St. New York 14	WA4-7200
NY	Fisher Scientific Co.	170 Franklin St. Buffalo 2	TL4-5303
Pa	Fisher Scientific Co.	Gulph Rd. King of Prussia	[illegible]
Tex	Fisher Scientific Co.	W 27th & Westover St. Odessa	FE2-8531
Tex	Fisher Scientific Co.	2920 Shotts St. Fort Worth 1	ED6-2518
Tex	Fisher Scientific Co.	317 Nagle St. Houston 1	CA8-0376
	FLANDERS FILTERS, INC.	**Box 718, Riverhead, NY**	**PA7-2102**
Cal	Air Conditioning Supply Co.	137 S Anderson St. Los Angeles	AN9-7456
Colo	R. L. McMahon	Box 2554, Denver	HA4-6628
Ill	Thermal Range Products Co.	5852 W Lake, Chicago 44	CO1-2800
Mass	Airadyne Co.	1826 Centre St. W Roxbury 32	FA4-1200
Mich	F. T. Schreiner	286 Penobscot Bldg. Detroit	WO2-1378
Minn	E. A. Berg	3825 Edgewood Ave. S Minneapolis	WE9-2441
NJ	S. B. Tepp	213 High St. Metuchen	LI8-7398
NY	Associated Thermal Prods. Inc.	534 Broadway, New York 12	OR7-2900
Ohio	Keatts Thermal Equipment Co.	3851 N High St. Columbus 14	AM3-0313
Pa	Mutimer Co.	Twnshp. Line Rd. & Wash La. Jenkintown	TU7-2606
Tenn	Rogers & Morgan	800-19th St. Knoxville	KN3-7942
Tex	H. O. Knape & Co.	2615 Routh St. Dallas 4	RI7-7596
	FLEISCHMAN, BURD & CO., INC.	**1271 Ave. of Americas, New York 20, NY**	**PL7-3460**
	FLEMING RADIO (DEVELOPMENTS) LTD.	**Caxton Way, Stevenage, Herts, Eng**	
	FLEXAUST CO.	**100 Park Ave. New York 17, NY**	**OR9-1300**
Colo	E. N. Murray	1531 Denver Club Bldg. Denver 2	AL5-0633
Ga	C. A. Wright	Box 12081, Atlanta	CE7-8870
Ill	S. J. Stanfield	427 S 4th St. Geneva	CE2-0255
La	W. E. Evans & Co.	1106 St. Thomas St. New Orleans 13	JA5-1425
Mich	The Loye Co.	3266 Rickman Ave. NE, Grand Rapids 5	EM1-4697
NY	G. R. Templeton	342 Caroline St. Rochester 20	HI5-3404
	FLEXIBOX LTD.	**Nash Rd. Trafford Pk. Manchester 17, Eng**	
NY	Sealol, Inc.	Providence 5, RI	ST1-4700
Fr	Flexibox S. A.	38 Rue de Trevise, Paris 9	PR84-73
Ger	Flexibox GmbH	Schielestr 45, Frankfurt/Main-Ost	480235
	FLEXONICS CORP.	**1315 S 3rd Ave. Maywood, Ill**	**MA6-3664**
Ala	Flexonics Corp.	Modern Media Blvd. Huntsville	JE9-4281
Cal	Flexonics Corp.	1485 Bayshore Blvd. San Francisco 24	DE3-05373
Cal	Flexonics Corp.	1818 W Chapman, Orange	KI7-5022
Mass	Flexonics Corp.	10 High St. Boston 10	HA6-0952
Mich	Flexonics Corp.	20262 Sherwood Ave. Detroit 34	FO6-7100
Mo	Flexonics Corp.	428 Nelda Ave. Kirkwood 22	YO5-8664
NJ	Flexonics Corp.	1143-45 E Jersey St. Elizabeth	EL4-6500
Ohio	Flexonics Corp.	C 4 Roselawn Ctr. Bldg. Cincinnati 37	RE1-8280
Ohio	Flexonics Corp.	5251 Broadview Rd. Cleveland 9	SH9-4958
Pa	Flexonics Corp.	18 W Chelten, Philadelphia 44	VI3-1202
Tex	Flexonics Corp.	Meadows Bldg. Dallas 6	EM8-2831
	FLIGHT REFUELING INC.	**Box 1701, Baltimore 3, Md**	**SO6-5000**
Cal	W. F. Davis	Box 642, Ingelwood	OR8-4207
Colo	R. A. Price	Box 421, Littleton	PY4-6367
	FLIGHT REFUELING, LTD.	**Tarrant Rushton Arfld. Blanford, Dorset, Eng**	**BL501**
	FLOW-ACUTATED CONTROL CO., INC.	**17-19 Park Row, New York 38, NY**	
	FLOW CORP.	**85 Mystic St. Arlington 74, Mass**	**MI8-6740**
Cal	C. W. Fowler Co.	429 S Western Ave. Los Angeles	DU4-7203
DC	P. R. Jodon, Inc.	8510 Beech Tree Rd. Washington	EM5-1515
Iowa	Engineering Services Co.	1305 Oakland Gardens, Cedar Rapids	EM5-6183
Kan	Engineering Services Co.	247 S Pinecrest, Wichita	MU3-3751
Mich	J. L. Peirce Co.	16666 James Couzens Hwy. Detroit	UN2-2571
Minn	Northport Engineering, Inc.	1729 Selby Ave. St. Paul	MI6-2621
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis	PA6-2233
NY	Crane & Egert Corp.	97 Reade St. New York	WO4-0996
Tex	Dannemiller-Smith, Inc.	6218B Westheimer, Houston	HO5-8347
Wash	B. Porter Co.	1209 Poplar Pl. Seattle	EA3-8330
Can	Radionics, Limited	8230 Mayrand St. Montreal 9, Que	RE9-5517
	FLOWLINE CORP.	**New Castle, Pa**	**OL4-5541**
Cal	Flowline Corp.	4781 E 3rd St. Los Angeles 22	AN8-3676
Colo	D. W. Jones, Jr.	1321 Bannock St. Denver 4	KE4-4911
NY	Flowline Corp.	233 Broadway, New York 7	WO2-6669
Okla	C. B. Parkhurst	15051 E Admiral Pl. Tulsa	TE5-7575
Tex	Flowline Corp.	5510 Edith St. Houston 36	MA3-6422
Wash	C. J. Roberts	1043-45 6th Ave. S, Seattle 4	MA3-6171
	FLUKE MFG. CO., INC. JOHN	**Box 7161, Seattle 33, Wash**	**PR6-1171**
Cal	McCarthy Associates, Inc.	1055 E Walnut St. Pasadena	MU1-7411
Ill	Cozzens & Cudahy, Inc.	125 Old Orchard Arcade, Skokie	OR5-6700
Md	Horman Associates, Inc.	941 Rollins Ave. Rockville	HA7-7560
Mass	Technical Instruments, Inc.	90 Main St. Reading	RE2-3930
Minn	Pinkney & Hine Co.	1925 Nicollet Ave. Minneapolis 3	FE8-0523
NJ	G. C. Engel & Associates, Inc.	210 S Broad St. Ridgewood	GI4-1400
NM	G. French Co.	7900 Zuni Rd. SE, Albuquerque	AM8-2478
NY	J. D. Ryerson, Inc.	Box 1400, Syracuse 1	GI6-1771
NC	Bivins & Caldwell, Inc.	1923 N Main, High Point	2-6873
Ohio	M. P. Odell Co.	26614 Center Ridge Rd. Westlake	TR1-8000
Tex	Wallace Associates	Box 13203, Dallas 20	FL7-8401
Wash	R. S. Drake Associates	1817 Norman St. Seattle 44	EA3-8545
	FLUOR CORP. LTD	**12000 E Washington Blvd. Whittier, Cal**	**AN2-6111**
Cal	Fluor Corp. Ltd.	2500 S Atlantic Blvd. Los Angeles 22	AN2-6111
NY	Fluor Corp. Ltd.	589 5th Ave. New York 17	EL5-4811
Tex	Fluor Corp. Ltd.	1594 The Houston Club Bldg. Houston 2	CA5-0491
	FLUOR PRODUCTS CO.	**Box 1267, Santa Rosa, Cal**	
Ala	J. W. Eshelman & Co.	1812-28th Ave. S, Birmingham 9	TR0-3462
Cal	Fluor Products Co.	2989 W 6th St. Los Angeles 5	DU5-0331
Cal	Echels-Spaulding Co.	525 Market St. San Francisco	YU2-3722
Colo	G. M. Wallace & Co.	324 Denham Bldg. Denver 2	AM6-0366
Ill	Fluor Products Co.	6525 W North Ave. Oak Park	VI8-9160
Mass	Farrell & Jones	10 High St. Boston 10	HA6-1750
Mo	Kansas City Equipment Co.	4706 Holly St. Kansas City 12	PL3-3737
NY	Fluor Products Co.	589 5th Ave. New York	EL5-0746
Okla	D. E. Fields	229 Mayo Bldg. Tulsa	DI3-8167
Pa	J. A. Brown Co.	1616 Walnut St. Philadelphia 3	KI5-7883
Pa	P. C. McKenzie Co.	3829 Willow Ave. Pittsburgh 34	FI1-9181
Tex	Fluor Products Co.	3137 Old Spanish Tr. Houston 21	RI7-6320
	FOOTE MINERAL CO.	**18 W Chelten Ave. Phila 44, Pa.**	**VI8-4000**
	FORD, BACON & DAVIS, INC.	**2 Broadway, New York 4, NY**	**DI4-3200**
Cal	Ford, Bacon & Davis, Inc.	235 Montgomery St. San Francisco 4	EX7-5081
Ill	Ford, Bacon & Davis, Inc.	135 S LaSalle St. Chicago 3	CE6-9186
La	Ford Bacon & Davis Construction Corp.	3901 Jackson St. Monroe	FA3-2281
	FORD INSTRUMENT CO. DIV. SPERRY RAND CORP.	**31-10 Thomson Ave. LIC 1, NY**	**ST4-9000**
Ala	Ford Instrument Co.	3322 Memorial Pkwy. S, Huntsville	JE9-2321

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Cal	Ford Instrument Co.	280 S Beverly Dr. Beverly Hills	BR2-6675
Ohio	Ford Instrument Co.	1310 Talbott Tower, Dayton 2	BA3-2294
	FORRO SCIENTIFIC CO.	**833 Lincoln St. Evanston, Ill**	**DA8-5729**
	FOSTER CO., BENJAMIN	**4635-37 W Girard Ave. Philadelphia 31, Pa**	
Cal	B. Foster Co.	Box 2698, Niles	SY7-0313
DC	J. R. Nurney	3714 - 14th St. NW, Washington	TA9-4332
Ill	R. W. Weaver	334 Northwood Rd. Riverside	DE7-4512
Mo	B. Foster Co.	Box 390, St. Joseph	AD8-0692
NY	E. A. Luleich	Old Mountain Rd. Upper Nyack	OX7-8599
Ohio	M. V. DeVan	3307 Middlesex Dr. Toledo	GR5-5682
Pa	G. A. Parker	173 Hilands Pl. Pittsburgh 37	WE1-4766
Tenn	J. F. Munson	Rt. 2, Mt. Juliet	1534-W
Tex	San Jacinto Bonded Warehouse	1901 Commerce St. Houston	CA5-1357
Va	S. C. Bell, Jr.	Box 8993, Richmond	MI9-2092
Can	B. Foster Co.	2224 Walker Rd. Windsor, Ont. Canada	CL3-9808
	FOSTER INSTRUMENT CO. LTD.	**Letchworth, Herts, Eng**	
	FOSTER TRANSFORMERS LTD	**5 Wimbledon Hordon Rd. London, SW19, Eng**	**LI2211**
Eng	Foster Transformers, Ltd.	Paradise St. Birmingham, 1	MI0695
Eng	Foster Transformers, Ltd.	90 Victoria St. Bristol, 1	BR2-4468
Eng	Foster Transformers, Ltd.	12 Princes St. Ipswich	IP5-6141
Eng	Foster Transformers, Ltd.	1 King St. Leeds, 1	LE2-0407
Eng	Foster Transformers, Ltd.	11 Norfolk St. Manchester, 2	BL7865/7
Eng	Foster Transformers, Ltd.	32-34 Moseley St. Newcastle-on-Tyne, 1	NE2-8621
Eng	Foster Transformers, Ltd.	2 St. James Terr. Nottingham	NO4-3025
Ire	Foster Transformers, Ltd.	39 Fountain St. Belfast	BE26222/6
Scot	Foster Transformers, Ltd.	5 Woodside Pl. Glasgow, C.3	DO0867
Wls	Foster Transformers, Ltd.	55 Churchill Way, Cardiff, Wales	CA2-7781
	FOSTER WHEELER CORP.	**666 5th Ave. New York 19, NY**	**JU2-6600**
Cal	Foster Wheeler Corp.	714 W Olympic Blvd. Los Angeles 15	RI9-7839
Cal	Foster Wheeler Corp.	461 Market St. San Francisco 5	GA1-6042
DC	Foster Wheeler Corp.	Tower Bldg. Washington 5	DI7-2022
Ga	W. D. Taulman & Associates	Box 12286, Northside Sta. Atlanta 5	CE7-0311
Ill	Foster Wheeler Corp.	105 W Adams St. Chicago 3	RA6-8673
Mass	Foster Wheeler Corp.	80 Federal St. Boston 10	HA6-0117
Mich	Foster Wheeler Corp.	Michigan Bldg. Detroit 26	WO1-4495
Ohio	Foster Wheeler Corp.	Leader Bldg. Cleveland 14	MA1-8225
Pa	Foster Wheeler Corp.	Packard Bldg. Philadelphia 2	LO3-2888
Pa	Foster Wheeler Corp.	Oliver Bldg. Pittsburgh 22	AT1-4887
Tex	Foster Wheeler Corp.	711 Main St. Houston 2	CA2-7364
Wash	Foster Wheeler Corp.	908 - 106th NE, Bellevue	GL4-7955
	FOSTER WHEELER LTD.	**Box 430, St. Catherines, Ont., Can**	**MU4-8321**
Alb	Foster Wheeler, Limited	514 Northern Hdwe. Bldg. Edmonton	ED2-6049
BC	Foster Wheeler, Limited	1815 7th Ave. W. Vancouver 9	RE1-7181
Man	Foster Wheeler, Limited	401 Childs Bldg. Winnipeg	WH2-6739
Ont	Foster Wheeler, Limited	150 Eglington Ave. E, Toronto 12	HU7-4117
Que	Foster Wheeler, Limited	4795 St Catherine St W, Westmount Mont.	WE3-1182
	FOX & CO., LTD., SAMUEL	**Stocksbridge Wks. Sheffield, Eng**	**SH34281**
NY	Luria Steel & Trading Corp	511 5th Ave. New York 17	
	FOXBORO CO.	**38 Neponset Ave. Foxboro, Mass**	**KI3-5311**
Cal	Foxboro Co.	399 Preda St. San Leandro	LO2-5525
Cal	Foxboro Co.	1212 S Garfield St. Alhambra	CU3-6675
Colo	Foxboro Co.	2829 E 2nd Ave. Denver 6	DE3-4297
Ga	Foxboro Co.	3393 Malone Dr. Chamblee	457-3154
Ill	Foxboro Co.	4546-8 Oakton St. Skokie	OR3-6900
NY	Foxboro Co.	420 Lexington Ave. New York 17	LE2-4682
Ohio	Foxboro Co.	1579 W 117th St. Cleveland 7	AC6-1060
Pa	Foxboro Co.	1 Bala Ave. Bala-Cynwyd	GR7-8000
Pa	Foxboro Co.	2270 Noblestown Rd. Pittsburgh 5	WA2-3000
Tex	Foxboro Co.	11710 E Northwest Hwy. Dallas 18	DA7-4531
Tex	Foxboro Co.	2518 South Blvd. Houston 6	JA8-5431
	FRANK & SCHULTE HADELSGES, m.b.H.	**152 Alfredstr. Essen, Ger**	
	FRANKEL CO.	**437 Grant St. Pittsburgh 19, Pa**	**GR1-7535**
	FRANKLIN ELECTRONICS, INC.	**4th St. Bridgeport, Pa**	**BR2-4800**
Cal	T. L. Snitzer Co.	5354 W Pico Blvd. Los Angeles 19	WE8-2074
Cal	T. L. Snitzer Co.	7814 Ivanhoe Ave. La Jolla	GL6-2191
Cal	T. L. Snitzer Co.	510 S Mathilda Ave. Sunnyvale	RE6-6733
Md	Eastern Associates, Inc.	908 Ingleside Ave. Baltimore	RI4-3676
Mass	Ross Engineering Sales	259 Walnut St. Newtonville 60	LA7-4331
Minn	R. E. Stemm	123 S 3rd St. Minneapolis	FE5-7172
NY	J. A. Reagan Co. Inc.	145 Millbrook Dr. Williamsville	PL2727
NY	J. A. Reagan Co. Inc.	45 N Lake Ave. Albany 3	AL6-9649
NY	J. A Reagan Co. Inc.	6 E Bayberry Circle, Liverpool	
NC	J. L. Highsmith & Co.	3733 Monroe Rd. Charlotte 5	FR7-2546
Pa	Eastern Associates, Inc.	820 Homestead Rd. Jenkintown	TU4-7200
For	Szucs International Corp.	50 Broad St. New York City 4	WH4-7959
	FRANKLIN INSTITUTE	**Philadelphia 3, Pa**	
	FRANKLIN SYSTEMS, INC.	**2734 Hillsboro Rd. West Palm Beach, Fla.**	
La	Delta Electronics, Inc.	621 Homedale Ave. New Orleans 24	AU3736
Pa	C. E. Snow Co.	919 E. Phil-Ellena St. Philadelphia 20	LI8-8043
Tex	Ind. Assoc. Electronics, Inc.	2311 Farrington St. Dallas	RI8-0777
Wash	Instrumentation Engineering	1331-3rd Ave. Bldg. Seattle 1	MA2-0600
For	Szucs International Corp.	50 Broad St. New York 4	WH4-7959

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	FRASER & CO. LTD., W. J.	**Hewold Hill, Romford, Essex, Eng**	**IN45566**
Aus	W. J. Fraser & Co. Ltd.	398 Lonsdale St. Melbourne	
S Af	W. J. Fraser & Co. Ltd.	62 Marshall St. Johannesburg	
	FREED TRANSFORMER CO., INC	**1718 Weirfield St. Brooklyn 27, NY**	**EV6-1300**
Cal	R. G. Moye Co.	116 S Stoneman Ave. Alhambra	
Cal	F. W. Moulthrop	575 10th St. San Francisco 3	
Colo	Nelson Co.	710 E Louisiana Ave. Denver 10	
Ga	F. Fausett & Son	777 Pinehurst Terr. SW, Atlanta	
Ill	H. L. Quick	482 Sheridan Rd. Evanston	
Md	B. White & Co.	1104 Mondawmin, Baltimore 15	
Mass	H. P. Segel Co. Inc.	386 Washington St. Brookline 46	
Mo	Automatic Gen. Elec. Sales.	6550B Troost Ave. Kansas City 6	
NY	M. P. Andrews, Inc.	319 Mott Rd. Fayetteville	
Ohio	Scott & Steffen, Inc.	1836 Euclid Ave. Cleveland	
Pa	W. Drew & Co.	145 N Narberth Ave. Narberth	
Wash	W. K. Widdekind	216 1st Ave. N, Seattle 9	
	FRENCHTOWN PORCELAIN CO.	**Frenchtown, NJ**	**FR400**
	FRIESEKE & HOEPFNER GMBH	**Erlangen-Bruck, Germany**	**2551**
NJ	Curtiss-Wright-Corp.	35 Market St. East Paterson	SW1-0100
Aust	Inglomark, Markowitsch & Co.	Mariahilferstr. 133, Wien XV	54785
Belg	P.C.B. Dept. Elec. & Phys. Nuc.	12, Rue du Telephone, Brussel	178080
Den	Bie & Berntsen	Pilestr. 35, Kopenhagen - K	MI6011
Eng	B & K Laboratories Ltd.	4 Tilney St. Park Ln, London W 1	GR4567
Fr	Paris-Labo	7 Rue du Cardinal-Lemoine, Paris	ME25-30
Gr	K. Karayannis	Kartisi Sq. Athen	23213
Holl	Ingenieurbureau Projecto	Prinsengracht 530, Amsterdam	31883
Ital	Soter S.R.L.	Via Properzio 4, Milano	559096
Spn	Kunne y Cia.	Apartado 95, Vigo	2516
Swed	Kemikaliebolaget KEBO AB	Birger Jarlsgatan 120, Stockholm	349700
Swit	Trub, Tauber & Co. AG	Amperestr. 3, Zurich	421620
	FUJI ELECTRIC MFG. CO., LTD	**2-6 Marunouchi, Chiyoda-ku, Tokyo, Jap**	**281-7111**
Jap	Fuji Electric Mfg. Co. Ltd.	2-4 Dojima Hama-dori Kita-ku, Osaka-shi	(312)6181
Jap	Fuji Electric Mfg. Co. Ltd.	1 Sakura-bashi-dori Toyama-shi	(3)1175
Jap	Fuji Electric Mfg. Co. Ltd.	6-4 Hyogo-machi Takamatsu-shi	(3)2520
Jap	Fuji Electric Mfg. Co. Ltd.	2-4-2 Takasago-cho Ube-shi	(3)3177
Jap	Fuji Electric Mfg. Co. Ltd.	6 Kamiya-cho Hiroshima-shi	(4)8258
Jap	Fuji Electric Mfg. Co. Ltd.	3-4 Hirokoji-dori Naka-ku, Nagoya-shi	(23)6181
Jap	Fuji Electric Mfg. Co. Ltd.	58 Tenjin-cho Fukuoka-shi	(4)6131
Jap	Fuji Electric Mfg. Co. Ltd.	11-144 Osaka-cho Kokura-shi	8084
Jap	Fuji Electric Mfg. Co. Ltd.	3-1 Kita-nijyo-nishi Sapporo-shi	(4)8141
Jap	Fuji Electric Mfg. Co. Ltd.	11 Higashi-Ichiban-cho, Sendai-shi	(3)3146
	FULLER CO., H. B., RESIWELD DIV.	**255 Eagle St. St. Paul 2, Minn**	**MI6-3641**
Cal	H. B. Fuller Co.	57 S Linden Ave. S San Francisco	PL6-5450
Cal	H. B. Fuller Co.	3250 Mines Ave. Los Angeles	AN3-2113
Ga	H. B. Fuller Co.	655 Mead St. SE, Atlanta	MA2-3502
Ill	H. B. Fuller Co.	904 W Blackhawk St. Chicago	MI2-6300
Kan	H. B. Fuller Co.	200 Funston Rd. Kansas City	FI2-3615
NJ	H. B. Fuller Co.	1201 Fuller Rd. Linden	WA5-2272
NY	H. B. Fuller Co.	1934 Elmwood Ave. Buffalo	RI6366
Ohio	H. B. Fuller Co.	4020 Cherry St. Cincinnati	MU1-5420
Ore	H. B. Fuller Co.	3332 N W Yeon Ave. Portland	CA6-3493
Tenn	H. B. Fuller Co.	802 Royal Ave. Memphis	JA6-4212
Tex	H. B. Fuller Co.	2217 Laws St. Dallas	RI7-7315
	FULMER RESEARCH INSTITUTE	**Stoke Poges, Bucks, Eng**	
	G.A.A.A.	**100 Av. Ed Herriot, Le Plessis-Robinson, Seine, Fr**	**ROG3-44**
	G-M LABORATORIES, INC.	**4300 N Knox Ave. Chicago 41, Ill**	**PE6-1800**
Mass	Pacent-Welling Co.	Statler Office Bldg. Boston 16	
NM	R. E. McClendon	915 Yale Blvd. SE, Albuquerque	
	GPL DIV. GENERAL PRECISION INC.	**63 Bedford Rd. Pleasantville, NY**	**RO9-5000**
Colo	Kistler Electric Co.	520 E Colorado St. Colorado Springs	
Colo	Scientific Instruments	1460 Penna. St. Denver 3	AL5-2777
Fla	W. A. Brown & Associates, Inc.	201 Capron Rd. Indian River City	
Ill	Illinois Electronic Systems	1219 Howard St. Evanstown	BR3-3935
Mass	Broger Instr. Sales Co., Inc.	48 Pearl St. Brookline 47	BE2-4804
Minn	Arrow Technical Sales	Box 273B Rt. 2, Osseo	LI5-6595
Mo	L. Mark Associates, Inc.	Box 8467, Kansas City 14	NI2-3313
Ohio	M. P. Odell Co.	26614 Center Ridge Rd. Westlake	TR1-8000
Ore	D. H. Burcham Co.	510 NW 19th Ave. Portland 9	CA6-4148
Tex	J. T. Schoonmaker Co.	5828 Redfield Ave. Dallas	LA6-7238
Can	The Northern Electric Co. Ltd.	250 Sidney St. Belleville, Ont.	WO2-4511
	GAERTNER SCIENTIFIC CORP.	**1237 Wrightwood Ave. Chicago, Ill**	**BU1-5335**
	GALLENKAMP & CO., LTD. A.	**Sun St. London EC 2, Eng**	**BI0651**
	GAMMA INDUSTRIE	**52 Rue de Dunkerque, Paris 9, Fr**	**TRE3-82**
	GAMMA INDUSTRIES, INC.	**Box 2543, Baton Rouge, La**	**DI2-3031**
	GANNETT FLEMING CORDDRY & CARPENTER, INC.	**400 N 2nd St. Harrisburg, Pa**	**CE8-8451**
DC	GFC&C, Inc.	1925 "K" St. NW, Washington	FE3-9265
Fla	GFC&C, Inc.	523 N Halifax Ave. Daytona Beach	CL2-1821
	GARDE MFG. CO.	**53 John St. Cumberland, RI**	
Ariz	Shefler-Kahn Co.	Box 1597, Phoenix	AL8-7893

Cal	Perimuth Electronic Assoc.	5057 W Washington Blvd. Los Angeles	WE1-1041
Fla	Chris Small	Box 1346, Orlando	OR4-2071
Ill	A. J. Ellis Co.	1607 Howard St. Chicago	AM2-2708
Mass	H. P. Segel Co.	386 Washington Ave. Brookline	BE2-7525
NY	A. F. Schultz	96 Oxford Rd. New Hartford	RE2-3266
NY	A. P. Maucelli	61 Irving Ave. Brooklyn 37	HY7-3578
Pa	D. G. Quinlan Co.	National Bank Bldg. Ambler	MI6-7250
Tex	P. J. Scanlon Co.	2608 Inwood Rd. Dallas	FL1-9991

GARLOCK, INC., ELECTRONIC PRODS. 600 N Tenth St. Camden, NJ WO4-2212

Cal	B. Bray	18 N Mentor Ave. Pasadena	MU1-3761
Cal	Rudat & Ewing	636 Waverly St. Palo Alto	DA2-5232
Colo	TMT Associates	Industrial Park, Boulder	HI2-3837
Fla	S. K. Wallace Assoc. Inc.	Box 67, Lutz	WE9-3241
Ill	Hill & Gray, Inc.	831 Garfield St. Oak Park	ES8-7050
Ind	Southern Sales Co.	105 Lakeshore Dr. Angola	AN777
Mass	Abbett & Hustis	1254 Highland Ave. Needham 92	HI4-5470
Mich	G. Shaffer Co.	14241 Penkel Ave. Detroit 27	BR3-5390
NJ	J. P. Dearie Co.	Box 66, Mountain Lakes	
Ohio	Scott & Steffen, Inc.	1836 Euclid Ave. Cleveland 15	TO1-2626
Pa	Navdain-Bohaker & Co.	Surban Sta. Bldg. Philadelphia 3	LO4-3194
Can	Lake Engineering Co. Ltd.	767 Warden Ave. Scarborough, Ont	PL7-3253

GARRETT CORP. ..... 9851 Sepulveda Blvd. LA 45, Cal ORO-0131

GAST MFG. CORP ..... Box 117-M, Benton Harbor, Mich WA6-6171

Ariz	Air Automation Machine Supply	1840 Grand Ave. Phoenix	AP8-7695
Cal	Brenner-Fiedler & Assoc. Inc.	7563 Melrose Ave. Los Angeles	WE3-3811
Cal	J. Wilbee Co.	420 Market St. San Francisco 11	YU6-3799
Conn	R. J. Ohlheiser	111 Pearl St. Hartford 3	CH7-7058
Ga	J. E. Watson & Co.	121 N Woodland Dr. Marietta	428-6423
Minn	Midwest Machine Tool Supply	2717 E Franklin St. Minneapolis 4	FE6-1606
NY	R. S. Brookman Associates	Box 27, Buffalo	BA9094
NC	L. W. Kinnear & Co. Inc.	128 W Worthington, Charlotte 3	FR6-7553
Ohio	Cleveland Pump & Supply Co.	Rockefeller Bldg. Cleveland 13	CH1-843
Ore	Pacific Pumping Co.	526 NW Broadway, Portland 9	CA8-2121
Pa	W. Schwartz	237 E Ellet St. Philadelphia 19	CH7-4102
Tex	Womack Machine Supply Co.	2010 Shea Rd. Dallas 35	FL7-3871

GATES & CO., INC., GEORGE W. Hempstead Tmpk. & Lucille Ave. Franklin Square, NY FI7-0787

GEIGY CHEMICAL CORP. ..... Saw Mill River Rd. Ardsley, NY GR8-3131

Cal	Geigy Chemical Corp.	3529 E Olympic Blvd. Los Angeles	AN3-3855
Ill	Geigy Chemical Corp.	5677 Northwest Hwy. Chicago	SP5-2100
Mass	Geigy Chemical Corp.	33 Industrial Place, Newton Uppper Falls	DE2-0880
Mo	Geigy Chemical Corp.	Paul Brown Bldg. St. Louis	GA1-6414
Ohio	Geigy Chemical Corp.	1010 Euclid Bldg. Cleveland	CH1-4290
Pa	Geigy Chemical Corp.	3901 M St. Philadelphia	CU8-0365

GEIPEL LTD. WILLIAM VULCAN WK5 156/170 Bermondsey St. London, SE1, Eng

GELMAN INSTRUMENT CO. ... 106 N Main St. Chelsea, Mich GR9-4821

Mass	Nucleonic Distributors	79 Clifton Ave. Marblehead	NE1-0637

GENERAL ALLOYS CO. ..... 400 W 1st St, Boston 27, Mass AMB-1710

Ill	General Alloys Co.	294 S Michigan Ave. Chicago	HA7-5652
Ind	G. O. Desautels Co.	Box 88008, Indianapolis 8	WA3-2403
Mich	General Alloys Co.	3-147 Gen. Motors Bldg. Detroit 2	TR5-5705
NY	General Alloys Co.	50 Church St. New York 7	BA7-9081
NY	General Alloys Co.	Box 2305, Buffalo 23	MO1710
Ohio	General Alloys Co.	2056 E 22nd St. Cleveland 15	SU1-3378
Pa	General Alloys Co.	Box 2714, Philadelphia 20	CU9-2866

GENERAL AMERICAN TRANSPORTATION CORP. 135 S LaSalle St. Chicago 3, Ill FI6-4100

Ala	Gen Amer Transportation Corp.	Box 1870, Birmingham	VI1-5562
Cal	Gen Amer Transportation Corp.	900 Wilshire Blvd. Los Angeles 17	MA8-1357
Cal	Gen Amer Transportation Corp.	235 Montgomery St. San Francisco 4	DO2-8232
La	Gen Amer Transportation Corp.	210 Baronne St. New Orleans 12	JA5-8503
NY	Gen Amer Transportation Corp.	380 Madison Ave. New York 17	OX7-2525
Ohio	Gen Amer Transportation Corp.	1307 Terminal Tower Bldg. Cleve 13	PR1-1391
Okla	Gen Amer Transportation Corp.	1005 1st Natl. Bank Bldg. Tulsa	LU2-6137
Pa	Gen Amer Transportation Corp.	2812 Koppers Bldg. Pittsburgh 19	GR1-3101
Tex	Gen Amer Transportation Corp.	1st Natl. Bank Bldg. Dallas 2	RI7-0402
Tex	Gen Amer Transportation Corp.	919 Bank of the Southwest Bldg. Houston 2	CA4-2891
Wash	Gen Amer Transportation Corp.	3rd & Union Sts. Seattle 1	MA2-1212

GENERAL ASTROMETALS CORP. 320 Yonkers Ave., Yonkers 2, NY YO8-2211

GENERAL ATOMIC DIV. GEN. DYNAMICS CORP. Box 608, San Diego 12, Cal GL9-2310

GENERAL AUTOMATIC CORP. 111-33rd St. Union City, NJ UN4-1867

GENERAL BIOCHEMICALS, INC. Laboratory Pk, Chagrin Falls, Ohio

GENERAL COACH WORKS OF CAN LTD. Hensall, Ont, Can 28

Can	Mid-States of Canada Ltd.	3715 Edmonton Tr. Calgary, Alberta	CR7-7596

GENERAL COMMUNICATION CO. 677 Beacon St. Boston, Mass CO7-6030

Cal	T. L. Snitzer Co.	5354 W Pico Blvd. Los Angeles	WE8-2074
Colo	Kelley Enterprises	336 E 4th St. Loveland	NO7-1376
DC	Arco Engineering Co.	733 15th St. NW, Washington	EX3-1174
NY	M.E.M.O. Inc.	69 Greenwich St. Hempstead	IV3-4060
NC	Murphy & Cota Co.	1106 Burke St. Winston-Salem	PA4-0750

Pa	C. R. Hile Co.	Hillview Rd. Paoli	
Tex	Southern Ind. Electronics, Inc.	536 Braniff Bldg. Dallas	FL9-3901
Can	Electromechanical Products	Markham Rd. Agincourt, Ont	AX3-7011
For	J. S. Spivey, Inc.	4908 Hampden Ln. Washington, DC	OL8-8808

GENERAL CONTROLS CO. ..... 801 Allen Ave. Glendale 1, Cal VI9-2181

Ill	General Controls Co.	8080 McCormick Blvd. Skokie	IR8-2323
Md	General Controls Co.	6201 Eastern Ave. Baltimore 24	ME3-7800
Mo	General Controls Co.	2904 Oak St. Kansas City 8	JE1-2400
NY	General Controls Co. Hammel-Dahl Div.	205 E 42nd St. New York 17	OR9-6330
Pa	General Controls Co.	125 Indiana Ave. Fort Washington	MI6-7040
Pa	General Controls Co.	875 Greentree Rd. Pittsburgh 20	WA2-4567
RI	General Controls Co. Foster Eng. Div.	Warwick Ind. Park, Warwick	ST1-4741
RI	General Controls Co. Hammel-Dahl Div.	Warwick Ind. Park, Warwick	ST1-6200

GENERAL ELECTRIC CO. APPARATUS SALES OFFICE 1 River Rd. Schenectady 5, NY FR4-2211

Ala	GE Apparatus Sales Off.	1804 7th Ave. N, Birmingham 3	FA2-7663
Cal	GE Apparatus Sales Off.	212 N Vigare St. Los Angeles 54	MA5-7381
Cal	GE Apparatus Sales Off.	235 Montgomery St. San Francisco 6	DO2-3740
Colo	GE Apparatus Sales Off.	201 University Blvd. Denver 6	DU8-4545
DC	GE Apparatus Sales Off.	777 14th St. NW, Washington 5	EX3-3600
Fla	GE Apparatus Sales Off.	25 SE 2nd Ave. Miami 32	FR3-4621
Ga	GE Apparatus Sales Off.	1860 Peachtree Rd. NW, Atlanta 3	TR6-8451
Ill	GE Apparatus Sales Off.	840 S Canal St. Chicago 80	WA2-5611
Ky	GE Apparatus Sales Off.	1210 Starks Bldg. Louisville 2	JU4-6334
La	GE Apparatus Sales Off.	837 Gravier St. New Orleans 12	TU7231
Md	GE Apparatus Sales Off.	111 Park Ave. Baltimore 1	MU5-6500
Mass	GE Apparatus Sales Off.	140 Federal St. Boston 1	HU2-1800
Mich	GE Apparatus Sales Off.	700 Antoinette St. Detroit 2	TR2-2600
Minn	GE Apparatus Sales Off.	12 S 6th St. Minneapolis 3	FE8-6771
Mo	GE Apparatus Sales Off.	818 Olive St. St Louis 1	GE5-4343
NY	GE Apparatus Sales Off.	570 Lexington Ave. New York 22	PL1-1311
NY	GE Apparatus Sales Off.	3532 James St. Syracuse 6	HO3-8511
NC	GE Apparatus Sales Off.	112 S Tryon St. Charlotte 1	FR5-5571
Ohio	GE Apparatus Sales Off.	4966 Woodland Ave. Cleveland 4	EN1-4464
Pa	GE Apparatus Sales Off.	3 Penn Center Plaza, Philadelphia 2	LO8-1800
Pa	GE Apparatus Sales Off.	Oliver Bldg. Mellon Sq. Pittsburgh 22	AT1-6400
Tex	GE Apparatus Sales Off.	8101 Stemmons Freeway, Dallas 22	FL7-4521
Tex	GE Apparatus Sales Off.	216 N Stanton, El Paso	3-7553
Wash	GE Apparatus Sales Off.	710 2nd Ave. Seattle 4	MA4-8300

GENERAL ELECTRIC CO. COMMUN. PRODS. DEPT. Lynchburg, Va VI6-7311
Sales offices in all principal cities

GENERAL ELECTRIC CO., COMPUTER DIV. ..... 13430 N Black Canyon Hwy. Phoenix, Ariz WI3-2351

NY	Computer Dept. G E Co.	1 River Rd. Schenectady	FR4-2211

GENERAL ELECTRIC CO. FOUNDRY DEPT. 1 River Rd. Schenectady 5, NY ... FR42211

GENERAL ELECTRIC CO. LAMINATED PRODS. DEPT. Coshocton, Ohio .. MA2-5310

Ariz	General Electric Co.	3550 N Central, Phoenix	AM5-3976
Ill	General Electric Co.	840 S Canal St, Chicago	WA2-5611
Mass	General Electric Co.	145 N Beacon St. Boston	AL4-5316
Minn	General Electric Co.	2524 Hennepin Ave. Minneapolis 5	FR7-3810
NY	General Electric Co.	570 Lexington Ave. New York	PL1-1311
NY	General Electric Co.	1 River Rd. Schenectady	FR4-2211
NY	General Electric Co.	3532 James St. Syracuse	HO3-8511
Ohio	General Electric Co.	6686 Pearl Rd. Cleveland 30	VI2-1000
Ohio	General Electric Co.	320 B Swifton Center, Cincinnati 37	RE1-1150
Pa	General Electric Co.	5050 State Rd. Drexel Hill	CL9-2131

GENERAL ELECTRIC CO., LAMP GLASS DEPT. Willoughby, Ohio

Cal	General Electric Co.	2747 S Malt Ave. Los Angeles 22	
Mass	General Electric Co.	50 Industrial Pl. Upper Newton Falls 64	
NJ	General Electric Co.	744 Broad St. Newark 2	

GENERAL ELECTRIC CO., LAMP METALS & COMPONENTS DEPT. ..... 21800 Tungsten Rd. Cleveland 17, Ohio ... KE1-5050

Cal	J. W. Forbes Co.	26304 Esperanza Dr. Los Altos Hills	WH8-8608
Ill	General Electric Co.	4201 S Pulaski Rd. Chicago 32	CL4-6161
Mass	General Electric Co.	50 Industrial Pl. Newton Upper Falls 64	DE2-0200

GENERAL ELECTRIC CO., METALLURGICAL PRODS. DEPT. ..... 11139 E 8 Mile Blvd. Detroit 32, Mich JE6-9100

Cal	Metallurgical Prods. Dept. GE Co	2106 W Washington Blvd. Los Angeles	RE1-8288
Ga	Metallurgical Prods. Dept. GE Co	3230 Peachtree Rd. N E, Atlanta 5	CE7-8086
Ill	Metallurgical Prods. Dept. GE Co	4117 S Western Blvd. Chicago 9	CL4-8686
NJ	Metallurgical Prods. Dept. GE Co	780 Colfax Ave. Kenilworth, NJ	CH5-7250
Ohio	Metallurgical Prods. Dept. GE Co	130 Northfield Rd. Bedford	BE2-8500

GENERAL ELECTRIC CO., MINIATURE LAMP DEPT. ... Nela Park, Cleveland 12, Ohio GL1-6600

Cal	E. E. Coleman	2747 S Malt Ave. Los Angeles 22	RA3-2541
Ga	R. E. Lawler	361 E Paces Ferry Rd. NE, Atlanta 5	CE7-0795
Ill	R. M. Pearce	165 N Canal St. Chicago 6	DE3-4712
Mich	J. W. Fleischer	820 Fisher Bldg. Detroit 2	TR4-1400
Mo	L. O. Reed	200 E 16th Ave. N Kansas City 16	GR1-3568
NY	E. C. O'Hara	570 Lexington Ave. New York 22	PL1-1311
Ohio	C. T. Nieson	990 Nassau St. Cincinnati 6	PL1-0411
Pa	R. L. Busey	Rt. 202 at Expwy. King of Prussia	MU8-5900

GENERAL ELECTRIC CO. RECEIVING TUBE DIV. Owensboro, Ky MU3-2401

Cal	General Electric Co.	11840 W Olympic Blvd. LA	GR0-7765

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Cal	General Electric Co.	442 Peninsular Ave. San Mateo	DI2-7201
DC	General Electric Co.	777 14 St. NW, Washington	EX3-3600
Ill	General Electric Co.	3800 N Milwaukee Ave, Chicago	SP7-1600
Mass	General Electric Co.	701 Washington St. Newtonville	WO9-9420
NJ	General Electric Co.	200 Main Ave. Clifton	GR3-6387
Tex	General Electirc Co.	3200 Maple Ave. Dallas	RI7-4296
	GENERAL ELECTRIC CO. WIRE & CABLE DEPT.	**1285 Boston Ave. Bridgeport 2, Conn.**	**ED4-1012**
Cal	CMSO	2142 S Tubeway, Los Angeles 22	OV5-7030
Ill	CMSO	5726 W 51st St. Chicago 38	GL5-2144
Mass	CMSO	1180 Beacon St. Newton Highland 61	DE2-8550
Mo	CMSO	3928 Lindell Blvd. St. Louis 8	JE5-3845
NY	CMSO	111 8th Ave. New York 11	WA4-7300
NC	CMSO	1300 Berryhill, Charlotte	EX9-8371
Ohio	CMSO	1421 E McMillan St. Cincinnati 6	PL1-3130
Ohio	CMSO	4520 W 160th St. Cleveland 35	CL2-3600
Pa	CMSO	4311 N "G" St. Philadelphia 24	CU9-6310
Tex	CMSO	5718 Armour Dr. Houston 20	WA8-5491
Wash	CMSO	5611 1st Ave, S, Seattle 8	PA2-6176
	GENERAL ELECTRIC CO. LTD. of ENGLAND Erith, Kent, England		
	GENERAL ELECTRODYNAMICS CORP. 4430 Forest Ln. Garland, Tex		**BR6-1161**
	GENERAL KINETICS CORP.	**197 S Van Brunt St. Englewood, NJ**	**LO7-3801**
Ala	Control Equipment Co.	Box 6044, Birmingham 9	TR9-8211
Cal	Luscombe Engineering Co.	130 N B St. San Mateo	DI2-7057
Ga	Control Equipment Co.	Box 566, Washington	OS8-2528
Ga	Control Equipment Co.	Box 11795, Atlanta 5	CE7-1688
Ill	Chi Power & Process Equip.	6778 Northwest Hwy. Chicago 31	RO3-6718
Mich	Garrett Burgess, Inc.	4660 Oakman Blvd. Detroit 4	TE4-5770
Mo	Kansas City Equipment Co.	4706 Holly St. Kansas City 12	PL3-3737
NJ	Fluid Controls Co. Inc.	646 Anderson Ave. Cliffside Pk.	WH3-1793
Ohio	The Abbott Co.	3437 Michigan Ave. Cincinnati	EA1-2349
Ore	R. E. Donelson Co.	Box 5785, Portland 22	OL4-1052
Pa	Autotrols, Inc.	Box 11038, Pittsburgh 37	WE1-4431
Va	Fluid Controls Co, Inc.	2521 Wilson Blvd. Arlington 1	JA5-5352
	GENERAL MAGNETICS, INC.	**135 Bloomfield Ave. Bloomfield, NJ**	**PI8-2400**
	GENERAL METERS, INC.	**Box 1701, Grand Junction, Colo**	**CH3-3954**
Cal	Brenner-Fiedler Associate	7563 Milrose Ave, Los Angeles 48	WE8-7128
Colo	TMT Associates	442 University Blvd. Denver 6	EA5-2826
NY	Joseph L Heller Associates	139-30 34th Rd. Flushing	FL3-8900
	GENERAL MILLS, INC. NUCLEAR EQPT. DEPT. MECH. DIV.	**419 N Fifth St. Minneapolis 1, Minn**	
	GENERAL NUCLEAR CO	**4957 Hollywood Blvd. Hollywood 27, Cal**	
	GENERAL NUCLEAR ENGINEERING CORP.	**Box 245, Dunedin, Fla**	**RI-5151**
	GENERAL RADIO CO.	**West Concord, Mass.**	**EM9-4400**
Cal	General Radio Co.	1000 N Seward St. Los Angeles	HO9-6281
Cal	General Radio Co.	1186 Los Altos Ave. Los Altos	WH8-8233
Ill	General Radio Co.	6605 W North Ave, Oak Park	VI8-9400
Md	General Radio Co.	8055 13th St. Silver Spring	JU5-1088
NJ	General Radio Co.	Broad Ave. at Linden, Ridgefield	WH3-3140
Pa	General Radio Co.	1150 York Rd. Abington	HA4-7419
Can	General Radio Co.	99 Floral Pkwy. Toronto, Ont	CH4-6221
	GENERAL REGULATOR CORP. SUB. FOSTER WHEELER CORP.	**666 5th Ave. New York 19, NY**	**JU2-6600**
Cal	F. W. Corp.	714 W Olympic Blvd. Los Angeles 15	
Cal	Foster Wheeler Corp.	461 Market St. San Francisco 5	
DC	Foster Wheeler Corp.	Tower Bldg. Washington	
Ga	W. D. Taulman & Associates	Box 12286, Northside Br. Atlanta	
Ill	Foster Wheeler Corp.	105 W Adams St. Chicago	
Mass	Foster Wheeler Corp.	80 Federal St. Boston	
Mich	Foster Wheeler Corp.	Michigan Bldg. Detroit	
Ohio	Foster Wheeler Corp.	Leader Bldg. Cleveland	
Pa	Foster Wheeler Corp.	Packard Bldg. Philadelphia	
Pa	Foster Wheeler Corp.	Oliver Bldg. Pittsburgh	
Tex	Foster Wheeler Corp.	711 Main St. Houston	
Wash	Foster Wheeler Corp.	808-106th St. NE, Bellevue	
	GENERAL SCIENTIFIC EQUIPMENT CO.	**Limekiln & Williams, Philadelphia 50, Pa**	
	GENERAL STEEL CASTINGS CORP. 1417 State St. Granite City, Ill		**GL3-2120**
Cal	Overland Supply Co.	55 New Montgomery St. San Francisco	YU2-2296
Ill	General Steel Castings Corp.	8 S Michigan Ave. Chicago 3	FI6-8533
Pa	General Steel Castings Corp.	Eddystone	TR6-8131
	GENERAL TRANSISTOR CORP.	**91-27 138th Pl. Jamaica 35, NY**	**HI1-1000**
	GENISCO, INC	**2233 Federal Ave. LA 64, Cal**	**BR2-2700**
Cal	Bond Engineering	Box 763, Sunnyvale	AX8-8419
Cal	A. F. Sales	385 E Green St. Pasadena	MU1-5631
Fla	Medco	Box 216, Melbourne	PA3-7016
Ill	Loren Green & Associates	5218 W Diversey Ave. Chicago 39	PA5-6824
Pa	Test Equipment Sales Co.	4447 Bodine St. Philadelphia	DA9-1822
Tex	R. A. Mayes Co.	Box 3344, El Paso	LY8-2982

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Wash	H. Levinson Co.	1117 2nd Ave. Seattle 1	MA2-5433
Fur	Genisco Export Department	333 E 46th St. New York, NY	YU6-2244
	GEORATOR CORP.	**315 Tudor Ln. Manassas, Va**	**EM8-2161**
Cal	W. B. Knight Co.	10377 W Pico Blvd. Los Angeles 64	BR2-0181
Ill	Cozzens & Cudahy, Inc.	125 Old Orchard Arc. Skokie	OR5-6700
NY	Travco Associates	45 N Station Plaza, Great Neck	HU7-9666
	GIFFELS & ROSSETTI, INC.	**1000 Marquette Bldg. Detroit 26, Mich**	**WO1-2084**
NY	Dr. E. F. Pike	500 5th Ave. New York 36	WI7-4949
Can	Giffels & Vallet of Canada Ltd.	65 Elliott St, E, Windsor, Ont	CL6-3111
	GILARDONI S.p.A.	**Via Statale, Mandello Lario, Como, Italy**	**71.221**
Som	Giovanni Bacca	Casella Po. 123 - Mogadiscio	
Fr	C. R. M.	2 Rue Lt. Col. Deport, Paris	
Lib	Piero Cardone	Sciara Mizran, 115/117, Tripoli	
Syr	Leon De Shab & Fils	Box 509, Alep	
Lib	De Shab Freres & Co.	Box 4903, Beyrouth	
Tur	Ethem Eralp	Fin, Must, Han, 18, Istambul	
SAf	Medital Pty. Ltd.	14 Victoria Ave. Parktown, Johannesburg	
Swit	Ruegge Ing. Adolf	Austr. 19 Baden	
Belg	Etablissement Paul Rime	218 Chaussee de Charleroi, Bruxelles	
Gr	Theodorou E. & Cie.	59-61 Rue Academie, Athens	
	GILBERT ASSOCIATES, INC.	**525 Lancaster Ave. Reading, Pa**	**FR6-3473**
DC	Gilbert Associates, Inc.	1511 K St. NW, Washington 5	RE7-8150
NY	Gilbert Associates, Inc.	61 Broadway, New York 6	WH3-7050
	GITS BROS. MFG. CO.	**1848 S Kilbourn Ave. Chicago 23, Ill**	
Cal	Geco Sales	3300 McLaughlin Ave. Los Angeles 66	CR4-1577
	GLADDING, McBEAN & CO.	**1551 S Primrose St. Monrovia, Cal**	**EL7-2243**
Cal	Tanner Engineering Co.	1003 S Santa Fe Ave. Los Angeles 21	MA3-1225
NJ	Bonn Assoc., Inc.	57 New St. Metuchen	LI9-9573
NY	John Lazor, Inc.	Box 307, Rochester	
	GLENCO CORP.	**212 Durham Ave. Metuchen, NJ**	**LI8-2800**
Cal	Engineered Magnetics Div.	13641 Cerise Ave. Hawthorne	OR8-7608
NM	C G Electronics Corp.	Albuquerque	AX9-7601
	GLESENER CO., A. J.	**975 Bryant St. San Francisco 3, Cal**	**MA6-0100**
	GLIDDEN CO.	**900 Union Commerce Bldg. Cleveland 14, Ohio**	**PR1-5121**
Cal	Glidden Co.	2201 Market St. San Francisco	UN3-6770
Ga	Glidden Co.	375 Luckie St. NW, Atlanta 13	MU8-6075
Ill	Glidden Co.	1833 S Normal Ave. Chicago 16	CA6-8200
Ill	Glidden Co.	1855 N LeClaire Ave. Chicago 39	BE5-6100
Minn	Glidden Co.	4519 France Ave, Minneapolis 10	WA7-7347
Mo	Glidden Co.	106 Gratoit St. St. Louis 2	GA1-2590
ND	L. E. Swor	528 6th Ave. N, Fargo	AD5-9541
Ohio	Glidden Co.	11001 Madison Ave. Cleveland 2	WO1-8300
Pa	Glidden Co.	1901 Centre Ave, Reading	FR3-4111
Can	Glidden Co.	361 Wallace Ave. Toronto 9, Ont.	
	GOOD-ALL ELECTRIC MFG. CO.	**112 W First St. Ogallala, Neb**	**28 4-3611**
Cal	Good-All Electric Mfg. Co.	9025 Wilshire Blvd. Beverly Hills	BR2-7703
Ill	Memac Sales Co.	4740 N Austin, Chicago 30	KI5-1033
Ind	R. O. Whitesell & Assoc.	6620 E Washington, Indianapolis 1	FL9-5374
Me	Drew Associates, Inc.	Box 467, Bedford, Mass.	CR4-7232
Mo	E. B. Schwerin Co.	4210 Main St. Kansas City	WE7564
NY	P. D. Aaron	Port Washington Blvd. Port Washington	7-8480
NY	L. D. Allen, Inc.	Box 32, Salina Sta. Syracuse 8	GR1-3108
Ohio	Baehr-Greenleaf & Assoc. Inc.	14700 Detroit Ave. Cleveland	AC1-9030
Pa	Technical Representation	220 S Easton Rd. Glenside	TU7-1325
Va	Potomac Electronics, Inc.	1025 N Royal St. Alexandria	TE8-856
	GOODENOUGH PUMPS LTD	**112 Jermyn St. London SW1, Eng**	**TR2663/5**
Eng	Tudor Works	Bradgate St. Leicester	LE21512
Eng	Goodenough Pumps Ltd.	Cheviot St. Cheetham, Man.	BL6318
	GOODRICH CHEMICAL CO., B. F.	**3135 Euclid Ave. Cleveland 15, Ohio**	**UT1-8200**
Cal	B. F. Goodrich Chemical Co.	714 W Olympic Blvd. Los Angeles 15	RI9-9157
Ga	B. F. Goodrich Chemical Co.	1430 Peachtree St. Atlanta 9	TR5-5642
Ill	B. F. Goodrich Chemical Co.	2116 Prudential Bldg. Chicago 1	SU7-3214
Mass	B. F. Goodrich Chemical Co.	200 Boylston St. Chestnut Hill 67	WO9-9020
NY	B. F. Goodrich Chemical Co.	415 Madison Ave. New York 17	TE8-8600
Can	B. F. Goodrich Chemical Co.	409 Weber St. W, Kitchener, Ont.	SH5-7351
	GOODRICH CO. B.F.	**500 S Main St. Akron, Ohio**	
	GORDON CO. CLAUD S.	**619 W 30 St. Chicago 16, Ill**	**VI2-6525**
Cal	Pacific Scientific Co.	6820 Chalet Dr. Los Angeles	LU3-1121
Ind	C. S. Gordon Co.	2800 E 39th St. Indianapolis 5	LI7-1057
Kan	Sullivan-Mears Co.	307 1/2 Laura, Wichita	FO3-6414
Mich	C. S. Gordon Co.	3049 E Grand Blvd. Detroit 11	TR2-1837
Mo	Fillo Sales & Engrg. Co.	4410 Chouteau Ave. St. Louis 10	JE1-0477
NY	C. A. Gates Co.	Box 284, New Rochelle	NE2-1465
Ohio	R. E. Surkamp Co.	Box 94, Cincinnati 36	TW1-1838
Ohio	C. S. Gordon Co.	2035 Hamilton Ave. Cleveland 14	TO1-6871
Pa	C. S. Gordon Co.	759 Penn Ave. Pittsburgh 21	FR1-2600
Pa	Process Equip. Sales Co.	327 Woodbine Ave. Narberth	
Tex	Gay Sales Co. Inc.	420 Sul Ross, Houston	JA9-3479
Wis	C. S. Gordon Co.	647 W Virginia St. Milwaukee 4	BR1-1271
	GORDON VALVES, LTD., J.	**Rochester, Kent, Eng**	

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	GOTTFELD G.m.b.H., F. H.	**Robert-Koch-Str. 26, Koln-Lindenthal, Ger**	**41 85 94**
	GOULD CO., JOHN D	**4707 Mass. Ave. Indapls 2, Ind.**	
	GOUROCK ROPEWORK CO. LTD	**92 Bay St. Port Glasgow, Scot**	**PO41261**
Can	Gourock Bridport, Ltd.	138 St. Peter St. Montreal 1	VI2-3917
Eng	The Gourock Ropework Co. Ltd.	38 Southside St. Plymouth	PL6-5141
Eng	The Gourock Ropework Co. Ltd.	Union Quay, N Shields	NO293
Eng	The Gourock Ropework Co. Ltd.	The Dock, Milfordhaven	MI34
Eng	The Gourock Ropework Co. Ltd.	Battery Green Rd. Lowestoft	LO332
Eng	The Gourock Ropework Co. Ltd.	70 New Bond St. London	MA7357
Eng	The Gourock Ropework Co. Ltd.	68/70 Old Hall St. Liverpool	CE1411
Eng	The Gourock Ropework Co. Ltd.	86 Great Hampton St. Birmingham	NO3977
Eng	The Gourock Ropework Co. Ltd.	Wyre Dock, Fleetwood	FL3451
Eng	The Gourock Ropework Co. Ltd.	W Dock Ave. Hull	CE3-7671
Scot	The Gourock Ropework Co. Ltd.	35 St. Clement St. Aberdeen	AB2-1640
Wls	The Gourock Ropework Co. Ltd.	29 James St. Cardiff	CA2-0095
	GRACE & CO. W. R., DAVISON CHEMICAL DIV.	**Box 408, Pompton Plains, NJ**	**TE5-3040**
	GRACE & CO., W. R., DAVISON CHEMICAL DIV.	**Erwin, Tenn**	**PI2-1721**
Cal	W. R. Grace & Co.	8949 Reseda Blvd. Northridge	DI5-2276
DC	W. R. Grace & Co.	1511 K St. Washington	RE7-5043
	GRAFLEX, INC.	**3750 Monroe Ave. Rochester 3, NY**	
	GRAHAM MFG. CO., INC.	**170 Great Neck Rd. Great Neck, NY**	
Cal	Graham Mfg. Co. Inc.	508 16th St. Oakland 12	
Cal	Horrell Co.	8240 Beverly Blvd. Los Angeles 48	
Ill	Lowden & Co.	3404 N Harlem Ave. Chicago 34	
Mass	Atkinson & Lawrence	38 N Main St. Natick	
Mich	Process Controls Co.	12201 Merriman Rd. Livonia	
Mo	Sample Bros.	2010 Big Bend Blvd. St. Louis	
NY	R. E. Walther	2021 Clinton St. Buffalo	
Ohio	W. M. Wilson Co.	8301 Pearl Rd. Strongsville 36	
Ohio	Jenkins Equipment Co.	6 Deerhill Ln. Cincinnati	
Pa	P. Turner Co.	Box 31, Bala-Cynwyd	
Tex	The Hainge Co.	3323 Mercer, Houston	
Can	Graham Mfg. (Canada), Ltd.	199 Bay St. Toronto 1, Ont	
	GRAND TRANSFORMERS, INC.	**Marion & Beach Tree Sts. Grand Haven, Mich**	**BA2-5430**
Ark	K-B Associates	2527 B McKinney Ave. Dallas	RI7-8779
Ind	The Willard Spenser Co.	20144 Livernois, Detroit 21, Mich	UN3-5189
Ky	The Willard Spenser Co.	20144 Livernois, Detroit 21, Mich	UN3-5189
Mich	The Willard Spenser Co.	20144 Livernois, Detroit 21	UN3-5189
NJ	T. E. Stewart Co.	Broadway & Stiles Ave. Maple Shade	NO3-3433
NY	E. Schwartzman	135 Sperry Blvd. New Hyde Park	MU2-6361
NY	Gislason Sales, Inc.	92 St. Paul St. Rochester 4	LO5223
Ohio	The Willard Spenser Co.	20144 Livernois, Detroit 21, Mich	UN3-5189
Okla	K-B Associates	2527 B McKinney Ave. Dallas, Tex	RI7-8779
Pa	T. E. Stewart Co.	Broadway & Stiles Ave. Maple Shade, NJ	NO3-3433
Tex	K-B Associates	2527 B McKinney Ave. Dallas	RI7-8779
	GRAVER TANK & MFG. CO., DIV. UNION TANK CAR CO.	**4809 Tod Ave. E Chicago, Ind**	**EX7-0254**
Cal	Graver Tank & Mfg. Co.	1135 W Huntington Dr. Arcadia	HI6-4134
Cal	Graver Tank & Mfg. Co.	155 Montgomery St. San Francisco 4	GA1-5945
Ga	Graver Tank & Mfg. Co.	84 Peachtree St. NW, Atlanta 3	JA3-2535
Ill	Graver Tank & Mfg. Co.	332 S Michigan Ave. Chicago 4	WA2-8893
La	Graver Tank & Mfg. Co.	1202 Richards Bldg. New Orleans 12	MA5643
Mich	Graver Tank & Mfg. Co.	2591 W Grand Blvd. Detroit 8	TR5-5300
NY	Graver Tank & Mfg. Co.	424 Madison Ave. New York 17	MU8-8181
Ohio	Graver Tank & Mfg. Co.	3030 Euclid Ave. Cleveland 15	EX1-5858
Okla	Graver Tank & Mfg. Co.	Box 4741, Tulsa 9	RI7-1326
Pa	The Benson 3	Jenkintown	TU7-1111
Tex	Graver Tank & Mfg. Co.	5343 McCormick Ave. Houston 1	WA6-1761
Utah	Graver Tank & Mfg. Co.	Box 479, Salt Lake City 10	DA8-6341
	GREAT LAKES CARBON CORP.	**18 E 48th St. New York, NY**	**EL5-6200**
Ala	J. B. Hayes Co.	205 S 32nd St. Birmingham	FA2-5537
Cal	Great Lakes Carbon Corp.	671 F Oak Grove Ave. Menlo Park	DA3-4152
Cal	G. O. O'Hara	4420 California St. Long Beach	GA4-5953
Ill	Great Lakes Carbon Corp.	1515 N Harlem Ave. Oak Park	VI8-3060
Mich	P. D. Terrien	28651 Kenallwood Dr. Farmington	GR6-3469
Mo	D. J. Palmisano	1000 W 100th St. Kansas City	WI2-0749
NY	Great Lakes Carbon Corp.	The Hancock Bldg. Niagara Falls	BU5-1238
Pa	Great Lakes Carbon Corp.	300 Cedar Blvd. Pittsburgh 28	LO3-1160
Tex	P. R. Mosley	4802 Saxon St. Bellaire	MO4-2171
	GREAT LAKES ELECTRIC MFG. CO.	**17 S Des Plaines St, Chicago 6, Ill**	**AN3-3565**
	GREENE TESTING LABS., INC. ARNOLD	**6 Huron Dr. Natick, Mass**	**OL3-5950**
	GRIEVE-HENDRY CO., INC.	**1360 N. Elston Ave. Chicago 22, Ill**	**BR8-3400**
Ala	Consolidated Eng. Co. of Ala	2824 Linden Ave. Birmingham 9	TR1-4866
Cal	A. D. Herman, Inc.	17071 Ventura Blvd. Encino	ST9-0349
Conn	W. K. Duff Co.	Box 406, Avon	OR7-9175
Ind	Engineering Products Co.	6620 E Washington St. Indianapolis 19	FL9-5374
Mass	Eastern Appliance Co.	231 Vassar St. Cambridge 39	UN4-3765
Mich	J. W. Eakins Co.	13040 Capital Ave. Oak Park, Detroit 1	JO6-1461
NY	Space-Tronics, Inc.	100 E Old Country Rd. Mineola	PI1-8816
NY	Davies Ind. Services, Inc.	3923 Harlem Rd. Buffalo 26	CI1706

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Ohio	Cleve Ind. Eqpt. Sales Co.	4500 Euclid Ave. Cleveland 3	HE1-8640
Pa	R. R. Kovach Co.	37 Alton Dr. Bethel Park	TE5-8296
Pa	F. P. Sahms	419 Twickenham Rd. Glenside	TU4-2559
Tex	Wright Ind. Products Co.	5738 N Central Expwy. Dallas 6	TA4-2571
	GRINNELL CO.	**260 W Exchange St. Providence 1, Rd.**	**TE1-7000**
Cal	Grinnell Co. of The Pacific	520 Mateo St. Los Angeles 13	MA3-7272
Cal	Grinnell Co. of The Pacific	601 Brannan St. San Francisco 7	GA1-6700
Colo	Grinnell Co.	2175 15th St. Denver 2	TA5-7181
Ga	Grinnell Co. Inc.	645 Northside Dr. NW, Atlanta 2	JA4-6201
Ill	Grinnell Co. Inc.	4425 S Western Ave. Chicago 9	VI7-1500
Mo	Grinnell Co. Inc.	1615 S Kings Hwy. St. Louis 10	PR1-4925
NY	Grinnell Corp.	400 Park Ave. New York 22	PL1-6700
NY	Grinnell Corp.	1374 Clinton St. Buffalo 6	FA6111
Ohio	Grinnell Co. Inc.	1294 E 55th St. Cleveland 3	HE1-4311
Pa	Grinnell Corp.	Erie Ave. & D St. Philadelphia 34	GA5-5850
Pa	Grinnell Corp.	1020 Ridge Ave. Pittsburgh 33	FA1-6544
Wash	Grinnell Co. of The Pacific	3101 Elliott Ave. Seattle 1	AT4-8440
	GRISCOM-RUSSELL CO.	**Massillon, Ohio**	**TE2-8751**
Cal	Griscom-Russell	2173 Colorado Blvd. Los Angeles 41	CL4-2505
Colo	Stearns-Roger Mfg. Co.	660 Bannock St. Denver 4	AC3-8484
Ill	Griscom-Russell	23 W Calendar Ave. LaGrange	FL3-0394
Kan	Hesler Co.	203 Muntzel-Keach Bldg. Mission	RA2-3000
Minn	Mellema, Geo. R., Co.	620 Plymouth Bldg. Minneapolis 3	FE2-0528
NY	Griscom-Russell	285 Madison Ave. New York 17	LE2-3431
NC	Heyward, T.C., & Co.	Box 3066, Charlotte 3	FR7-2678
Okla	Dunham, R. J., Co.	716 Wright Bldg. Tulsa 3	LU2-1714
Pa	McKenzie, P. C., Co.	Box 10396, Pittsburgh 34	FI1-9181
Pa	Griscom-Russell	1217 Land Title Bldg. Philadelphia 10	LO3-1890
Tex	Griscom-Russell	1100 E Holcombe, Houston 25	JA3-7482
Wash	Bumstead-Woolford Co.	1411 4th Ave. Seattle 1	MA3-4915
	GUARDIAN ELECTRIC MFG. CO.	**1550 W Carroll Ave. Chicago 7, Ill**	**CH3-1100**
Cal	Avtronics, Inc.	Box 90578, Airport Sta. Los Angeles 45	OR8-9045
Conn	Sales Engineering Co.	Sugar Ln. Newton	GA6-4434
Kan	Guardian Electric Mfg. Co.	421 S Main St. Wichita	HO4-1991
Md	M. F. Taylor Co.	Buckhorn Rd. Baltimore 34	NO8-9054
Mass	Sales Engineering Co.	89 High St. Chelmsford	CA7-0805
NY	Guardian Electric Mfg. Co.	30 Madison Ave. Cranhill, NJ	LO6-5747
Ohio	Guardian Electric Mfg. Co.	214 Finance Bldg. Cleveland 15	SU1-8644
Ohio	Guardian Electric Mfg. Co.	1717 Section Rd. Cincinnati	ME1-4719
Pa	Guardian Electric Mfg. Co.	7114 Rising Sun Ave. Philadelphia 11	DE2-1389
Tex	J. P. McKinney Sales Co.	1303 Chemical St. Dallas 7	RI1-1368
Wash	Marsh Agencies, Inc.	2801 1st Ave. Seattle 1	MA3-8781
Can	A. C. Simmonds & Sons, Ltd.	100 Merton St. Toronto 7, Ont	HU5-9111
	GYRA ELECTRONICS CORP.	**Box 184, La Grange, Ill**	**FL4-4644**
Ala	F. U. Wamble	3867 Sherwood Dr. Montgomery	
Ill	D. E. Smith	9 S River St. Aurora	TW7-5782
Mass	Saunders & Co.	8 Prospect St. Waltham 54	TW4-6071
NY	H. F. Smith	265 W 14th St. New York 11	CH2-2506
Pa	W. F. Satterthwaite	Box 684, Havertown	
	H-B INSTRUMENT CO.	**American & Bristol Sts. Philadelphia 40, Pa**	**DA5-9125**
Cal	Bellilove Co.	420 Market St. San Francisco 11	
Cal	R. Sydney Hopkins Co.	15016 Ventura Blvd. Sherman Oaks	ST6-5501
Conn	F. P. Combier	24 Harstrom Pl. Rowayton	
Ga	G. R. Koein & Co.	144 Walker St. SW, Atlanta 3	
La	Williamson Sales Co.	Box 1687, Shreveport	
NY	C. V. Stevens	5554 Main St. Buffalo 21	
Ore	J. A. Tudor & Associates, Inc.	1004 SE Belmont St. Portland 14	
Pa	Lewis Electrical Equipment Co.	5305 Germantown Ave. Philadelphia 44	
Wash	O. Hogenson	95 Connecticut St. Seattle 4	
Wis	Kirchmayer-Seidel Co.	Box 91, Milwaukee 13	
Can	J. R. Kearney Corp.	Box 670, Guelph, Ontario	
	HRB-SINGER, INC.	**Circleville Rd, State College, Pa**	**AD7-7611**
NJ	HRB-Singer, Inc.	90 Schureman St. New Brunswick	CH9-5030
NY	HRB-Singer, Inc.	5 E 35th St. New York	MU3-1248
	HACKER & CO., INC., WILLIAM J.	**Box 646, W Caldwell, NJ**	**CA6-8450**
Cal	Max Erb Instrument Co.	3541 W Olympic Blvd. Los Angeles 19	
Cal	Erb & Gray Scientific Co.	854 S Figueroa St. Los Angeles 17	
Cal	Technical Instrument Co.	98 Golden Gate Ave. San Francisco 2	
Ga	Halco Scientific Instrument Co.	557 Springdale Rd. NE, Atlanta 6	
Ill	C. H. Stoelting Co.	424 N Homan Ave. Chicago 24	
Mich	Eberbach & Sons Co.	Box 63, Ann Arbor	
Minn	J. Kluegel Co.	Griggs Midway Bldg. St. Paul 4	
Pa	Boder Scientific Co.	810-814 Penn Ave. Pittsburgh 22	
Tex	G. E. Miller	1717 N Garrett St. Dallas 6	
Wash	Scientific Supplies Co.	600 Spokane St. Seattle 4	
	HADBAR, INC.	**9530 Gidley St. Rosemead, Cal**	
	HAGAN CHEMICALS & CONTROLS, INC.	**Box 1346, Pittsburgh 30, Pa**	**WA2-3737**
Ala	J. W. Eshelman & Co., Inc.	1812 - 28th Ave. S, Birmingham 9	TR9-3462
Cal	Hagan Chemicals & Controls Inc.	3040 Tweedy Blvd. South Gate	LO7-2384
Cal	Hagan Chemicals & Controls Inc.	1485 Bayshore Blvd. San Francisco 24	JU7-0736
Colo	Hagan Chemicals & Controls Inc.	7580 W 17th Ave. Denver 15	BE7-2739
Ill	Hagan Chemicals & Controls Inc.	211 S Main St. Lombard	HA7-1743
Md	Parr Engineering Co.	912 Thayer Ave. Silver Spring	JU5-8290
Mass	R. L. Williams, Inc.	77 Summer St. Boston 10	HA6-0896
Minn	Fuel Economy Engineering Co.	510 New York Bldg. St. Paul 1	CA4-5481

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
NY	Simler & Sengstaken	271 Madison Ave. New York 16	LE5-8335
NC	J. W. Eshelman & Co., Inc.	1808 Montford Dr. Charlotte 9	JA3-3399
Pa	Parr Engineering Co.	1516 Locust St. Philadelphia	KI5-0720
Pa	Hagan Chemicals & Controls Inc.	Rt. 60 & Campbell's Run Rd. Moon Run	WA2-3737
	HALEDY ELECTRONICS CO.	**57 William St. New York 5, NY**	
	HALLAMORE ELECTRONICS DIV.	**714 Brookhurst, Anaheim, Cal**	**PR4-1010**
Cal	Hallamore Electronics	1474 Barton Dr. Sunnyvale	
Colo	Hallamore Electronics	3550 S Inca St. Englewood	SU9-2551
DC	Hallamore Electronics	1401 K St. NW, Washington	ME5-2920
	HALLIBURTON OIL WELL CEMENTING CO.	**P O Drawer 1431, Duncan, Okla**	**AL5-3760**
Cal	Halliburton Oil Well Cementing	1709 W 8th St. Los Angeles 17	HU3-2302
Colo	Halliburton Oil Well Cementing	1130 Petroleum Club Bldg. Denver	AL5-0461
Ind	Halliburton Oil Well Cementing	Box 655, Evansville 2	HA4-0601
Kan	Halliburton Oil Well Cementing	410 Union Center Bldg. Wichita 2	AM5-8611
La	Halliburton Oil Well Cementing	820 Oil & Gas Bldg. New Orleans 12	JA2-0304
La	Halliburton Oil Well Cementing	405 Petroleum Tower, Shreveport	2-9523
Okla	Halliburton Oil Well Cementing	2305 Liberty Bank Bldg. Oklahoma City 2	CE6-1693
Tex	Halliburton Oil Well Cementing	701 Wilson Tower, Corpus Christi	TU4-6614
Tex	Halliburton Oil Well Cementing	211 N Ervay, Dallas	RI1-3841
Tex	Halliburton Oil Well Cementing	411 Esperson Bldg. Houston 2	CA7-8164
Tex	Halliburton Oil Well Cementing	Drawer 1889, Midland	MU2-4307
Tex	Halliburton Oil Well Cementing	505 Great Plains Life Bldg. Lubbock	PO5-6725
	HAMILTON KENT MFG. CO.	**427 Grant, Kent, Ohio**	**OR3-9555**
Cal	Henry M. McCarthy	Box 3366, Van Nuys	TR3-4915
Ga	Biever Air & Hydraulic Eqpt.	254 Paces Ferry Rd. NE, Atlanta 5	CE7-9464
Mass	W. A. Smith	333 Lincoln St. Hingham	RI9-4000
NY	Beltran Assoc.	1133 E 35th St. Brooklyn 10	DE8-3311
NY	Piagus Machinery Co.	155 Esminger Rd. Tonawanda	RI9650
Ohio	C. B. Peltason	1325 Laidlaw Ave. Cincinnati	JE1-2864
Ohio	Reynolds Mach. Co.	3107 Carnegie Ave. Cleveland 15	EN1-3745
Va	E. Douglas Vis	1525 Terrace Rd. SW, Roanoke	DI3-8074
	HAMILTON MFG. CO.	**Two Rivers, Wis**	**TW251**
Cal	J. Cowley	33 N B St. San Mateo	DI4-0707
Colo	Wm. Horbitt & Co.	2329 Champa St. Denver	AM6-2691
DC	J. T. Steffes	927 15th St. Washington 5	EX3-2260
La	L. C. Lohman & Associates	1128 Dublin St. New Orleans	HM1-4565
Mass	R. H. Gibson	Box 176, Wayland	DA6-5807
Mich	B. F. Farnell Co.	435 W 7 Mile Rd. Detroit 3	TO6-9231
Minn	Haldeman-Homme Inc.	2580 University Ave. St. Paul 14	MI5-5468
NY	G. W. Nagler	18 Patricia St. Binghamton	RA9-1555
NY	C. Colligan	478 Merrick Rd. Lynbrook	LY3-5392
Ohio	Smith & Schaefer	3717 Eastern Ave. Cincinnati 26	EA1-8274
Tex	C. L. Blake	2240 Forest Park Blvd. Fort Worth	WA6-0236
Wis	Milwaukee Equipment Co.	4221 N 35th St. Milwaukee 16	HU5-2640
	HAMMEL-DAHL/FOSTER ENGINEERING DIV. GEN CONTROLS CO.	**Warwick Industrial Pk. Warwick, RI**	**ST1-4200**
Cal	General Controls Co.	801 Allen Ave. Glendale	VI9-1480
Colo	General Controls Co.	1162 Elati St. Denver 4	CH4-8776
Fla	General Controls Co.	3804 W Flagler St. Miami 44	HI4-2877
Ill	General Controls Co.	8080 McCormic Blvd. Chicago	IR8-2323
NY	General Controls Co.	205 E 42nd St. New York	OR9-6335
Ohio	General Controls Co.	307 E 4th St. Cincinnati 2	PA1-8162
Ohio	General Controls Co.	4317 Chester Ave. Cleveland 3	EX1-0555
Okla	General Controls Co.	1316 S Peoria Ave. Tulsa 20	DI3-0554
Pa	General Controls Co.	125 Indiana Ave. Fort Washington	MI6-7040
Tex	General Controls Co.	3607 S Sandman St. Houston 6	JA3-5671
Tex	General Controls Co.	1804 N Industrial Blvd. Dallas 7	RI1-3494
	HAMMER ELECTRONICS CO.	**Box 531, Princeton, NJ**	
Ariz	McCarthy Associates	111 Osborn W, Phoenix	CR9-1891
Cal	McCarthy Associates	1055 E Walnut St. Pasadena	MU1-7411
Ill	E. H. Corlett	607 N Grove Ave. Oak Park	EU3-0171
Mass	Raytronics Co.	2 Garden Rd. Marblehead	NE1-1857
Mich	B. Z. Rubin Co.	12838 Fenkell Ave. Detroit 27	UN4-4958
NJ	Landfear Enterprises	Box 68, Nutley	NO7-2900
NY	J. B. Lightstone	515 Comstock Ave. Syracuse 10	GE5-8784
Ohio	A. Kurtz	515 E Grand Ave. Springfield	FA2-5893
Pa	H. E. Ransford Co.	5400 Clairton Blvd. Pittsburgh 36	TU4-3425
Can	R. C. Testing & Control Systems	618 Vaughan Rd. Toronto 10, Ontario	RU1-6658
For	Henley & Co.	202 E 44th St. New York 17	YU6-5544
Ger	Sneider, Henley & Co.	Maximilianplaz 12a, Munchen 2	
	HAMWORTHY ENGINEERING LTD	**Poole, Dorset, Eng**	**PO2020**
	HANDY & HARMAN	**82 Fulton St. New York 38, NY**	**BE3-2460**
Cal	Handy & Harman	330 N Gibson Rd. El Monte	CU3-8181
Conn	Handy & Harman	Bridgeport 1	CL9-8321
Ill	Handy & Harman	1900 W Kinzie St. Chicago 22	SE3-1234
Ill	Handy & Harman	55 E Washington St. Chicago 2	CE6-6330
Mich	Handy & Harman	19363 James Couzens Hwy. Detroit 35	VE6-8480
NY	Handy & Harman	44 W 46 St. New York 36	BE4-2460
Ohio	Handy & Harman	4402 W 215 St. Cleveland 26	EM3-2166
RI	Handy & Harman	425 Richmond St. Providence 3	JA1-4100
Tex	Handy & Harman	5840 Williamstown Rd. Dallas 30	AD9-2717
Can	Handy & Harman of Can. Ltd.	141 John St. Toronto 2B, Ont.	EM5-8171
Can	Handy & Harman of Can. Ltd.	620 Cathcart St. Montreal 3	UN6-6596
	HANNA ENGINEERING WORKS	**1767 Elston Ave. Chicago 22, Ill**	**BR5-2710**
Cal	Sweetland Co.	151 Mission St. Los Angeles	GA1-2663

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Mich	Industrial Air & Hydr. Eqpt.	13324 Kercheval Ave. Detroit	VA1-9800
NY	Hughes Ind. Products Co.	1006 Prudential Bldg. Buffalo	MO7898
NY	Hummel Technical Prods. Inc.	90 West St. New York	BA7-8633
NY	A. D. Supply, Inc.	36 Vick Park A, Rochester	GR3-3810
NY	Automation Sales Eng. Co.	434 State St. Schenectady	EX3-1747
Ohio	Jay Instr. & Specialty Co.	9966 Springfield Pike, Cincinnati	PR1-7010
Ohio	Wyatt Sales Corp.	1900 Euclid Ave. Cleveland	CH1-6380
Pa	Airline Equip. Co. Inc.	301 E Hunting Park Ave. Philadelphia	GA6-5820
Pa	F. T. Donnely Co.	1372 Freeport Rd. Pittsburgh	ST1-7110
	HARBISON-WALKER REFRACTORIES CO.	**307 5th Ave. Pittsburgh 22, Pa**	**AT1-0942**
Ala	Harbison Walker Refractories Co.	2130 Highland Ave. Birmingham 5	FA2-5701
Cal	Harbison-Walker Refractories Co.	625 Market St. San Francisco 5	YU6-2942
Colo	Harbison-Walker Refractories Co.	2402-10th Ave. SW, Canon City	CR5-3303
Ill	Harbison-Walker Refractories Co.	30 W Monroe St. Chicago 3	FI6-6393
Mass	Harbison-Walker Refractories Co.	10 High St. Boston 10	LI2-4626
Mich	Harbison-Walker Refractories Co.	17601 James Couzens Hwy. Detroit 35	DI1-1920
Mo	Harbison-Walker Refractories Co.	1325 Ambassador Bldg. St. Louis 1	CH1-4898
NY	Harbison-Walker Refractories Co.	68 William St. New York 5	BO9-5515
Ohio	Harbison-Walker Refractories Co.	1986 W 3rd St. Cleveland 13	CH1-3252
Tex	Harbison-Walker Refractories Co.	1319 Prudential Bldg. Houston 25	JA9-3777
	HARCO LABORATORIES, INC.	**77 Olive St. New Haven, Conn**	**ST7-6701**
Ariz	Hyde Electronics Co.	2902 W Villa St. Phoenix	AP8-2566
Cal	Engineering Liaison Associates	11168 Santa Monica Blvd. Los Angeles	GR9-4357
Ga	C. M. Sallee & Associates	249 Flat Shoals Ave. SE, Atlanta 16	JA3-2232
Ill	Engineering Services Co.	4550 Main St. Kansas City	JE1-7765
Mass	P. R. Sturgeon, Inc.	25 Huntington Ave. Boston 16	CO6-7705
Minn	F. B. Hill Co.	6110 Excelsior Blvd. Minneapolis 16	WE9-6727
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis 30	FA6-2233
Mont	Hyde Electronics Co.	888 S Lipan St. Denver, Colo	WE6-3436
NM	Hyde Electronics Co.	5206 Constitution NE, Albuquerque	AM8-1111
NY	J. W. Richardt Co.	Rt. # 46, Pine Brook, NJ	CA8-0600
Ohio	Martin-Rettger, Inc.	11955 Shaker Blvd. Cleveland 20	SW1-8787
Wash	Benno Persitz Co.	114 Garfield St. Seattle 9	AT3-1965
	HAR-D-CAL, Nuclear Div. Box 455, Williston, SC		**WI4731**
Ga	Specialty Distributing Co.	Augusta	
Ger	Riechmann & Denker	Bremen	
	HARNISCHFEGER CORP.	**4400 W National Ave. Milwaukee 46, Wis**	**GR1-4400**
	HARPER ELECTRIC FURNACE CORP.	**57 River St. Buffalo 2, NY**	**TL6-5344**
Cal	Lombard Smith Co.	714 W Olympic Blvd. Los Angeles 15	RI3-3345
Cal	Lease, J. H.	Box 246, Sta. A, Palo Alto	VA6-2122
Colo	T. C. Jarrett Co.	Box 7697, Denver 15	SE3-2395
Ill	R. E. Stemm, Inc.	5681 W Lake St. Chicago 44	ES9-2700
Mass	Chutter, G. A.	15 Exchange Pl. Jersey City 2 NJ	DE2-1700
Mich	Armstrong, C. H. Co.	570 Livernois Ave. Ferndale 20	LI4-1303
Minn	R. E. Stemm, Inc.	123 S 3rd St. Minneapolis 1	FE5-7172
Ohio	E. F. Burke, Inc.	17002 Miles Ave. Cleveland 28	WY1-8273
Pa	Barba, C. E. Jr.	10 N Main St. Doylestown	FI8-9161
Tex	Griggs, M. K. Co., Inc.	2801 San Jacinto, Houston 4	CA8-8545
Tex	Griggs, M. K. Co., Inc.	322 W Jefferson St. Dallas	WH1-4994
Wash	Hartley, H. E. Co.	Boeing Field, Box 81, Seattle 8	FA5-7120
	HARSHAW CHEMICAL CO.	**1945 E 97th St. Cleveland 6, Ohio**	
	HARTY CO. INC., R. V.	**1433 Siemon Ave. Detroit 11, Mich**	**TO5-4990**
	HARVEY ALUMINUM CO.	**19200 S Western Ave. Torrance, Cal**	**SP5-2181**
Cal	Harvey Aluminum Sales, Inc.	2015 Center St. Berkeley 4	TH5-3133
Cal	Harvey Aluminum Sales, Inc.	426 Olive St. San Diego	CY6-6101
Conn	Harvey Aluminum Sales, Inc.	530 Silas Deane Hwy. Hartford	JA9-5120
DC	Harvey Aluminum Sales, Inc.	1001 Connecticut Ave. NW, Washington	RE7-4366
Ga	Harvey Aluminum Sales, Inc.	1430 W Peachtree St. NW, Atlanta	TR5-8376
Ill	Harvey Aluminum Sales, Inc.	6429 W North Ave. Oak Park	EU3-6320
Mich	Harvey Aluminum Sales, Inc.	16244 James Couzens Hwy. Detroit 21	UN4-1030
Mo	Harvey Aluminum Sales, Inc.	2 S Brentwood Blvd. St. Louis	VO3-3445
Pa	Harvey Aluminum Sales, Inc.	132 Allendale Rd. King of Prussia	CH7-7423
Pa	Harvey Aluminum Sales, Inc.	90 Clairton Blvd. Pittsburgh	TU4-3440
Tex	Harvey Aluminum Sales, Inc.	5044 N Westmoreland Rd. Dallas	FL7-4327
Wash	Harvey Aluminum Sales, Inc.	550 Mercer St. Seattle	AT3-4990
	HARVEY & CO. (LONDON), LTD.	**G. A. Woolwich Rd. London SE7, Eng**	
	HARVEY ELECTRONICS LTD.	**273 Farnborough Rd. Farnboro. Hants, Eng**	**FA1120**
Cal	Electom Distributors	9507 Santa Monica Blvd. Beverly Hills	CR1-1864
Mass	Feedback Controls, Inc.	899 Main St. Waltham 54	TW4-1020
NY	British Industries Corp.	80 Shore Rd. Port Washington	PO7-7700
Can	Payette Radio, Ltd.	730 St. James St. W, Montreal 3	UN6-6661
	HARVEY WELLS ELECTRONICS, INC.	**14 Huron Dr. Natick, Mass**	
	HASKELL ENGINEERING CO.	**1236 S Central Ave. Glendale 4, Cal**	**CI4-8675**
Cal	Haskel Eng. & Supply Co.	225 11th St. San Francisco	UN3-1489
	HASSALL, INC., JOHN	**Box 2278, Westbury, NY**	**ED4-4200**
Cal	H. B. Smith	2186 S Atlantic Blvd. Los Angeles 22	AN1-2224
Conn	R. M. Whelan Co.	Box 1131, Darien	OL5-0400
Ill	W. H. Grant	333 N Michigan Ave. Chicago 1	AN3-2479
Mich	R. B. Ryan	Jaikins Bldg. Birmingham	JO6-3826
Mo	R. B. Stahlhut	12760 Post Oak Rd. St. Louis 31	FA5-7793
NJ	H. E. Morton	972 Broad St. Newark	MA2-9094
NY	J. J. Theobald, Inc.	9 E Genesee St. Skaneateles	OV5-5711

Ohio	L. Hart	2990 Wicklow Dr. Toledo 6	JE6-8561
Pa	Sanford & Co.	221 Benson E. Jenkintown	TU7-8780
Pa	C. A. Karthauser & Co.	1502 Union Bank Bldg. Pittsburgh 22	AT1-9111
Tex	G. V. Peck Co.	150 Casa Linda Plaza, Dallas 18	DAI-5797
Wash	A. J. Hanson & Co.	4903 9th NW, Seattle 7	SU4-8030

HASTINGS-RAYDIST, INC. .... Newcomb Ave. Hampton, Va

HATHAWAY INSTRUMENTS, INC. 5800 E Jewell Ave. Denver 22, Colo..... SK6-8301

Cal	R. L. Pflieger Co., Inc.	1662 Laurel St. San Carlos	LY1-0398
Colo	Williams & Associates, Inc.	2263 S Albion St. Denver 22	SK6-9403
Ill	R. W. Armil	1940 E Lincoln, Birmingham, Mich	MI4-9004
Mass	Bordewieck Eng. Sales Co.	221 Grove St. Braintree	VI3-0848
NJ	Dickison Sales Co., Inc.	302 Marlton Pike, Erlton	HA8-4086
NY	M. J. Fein	Box 28, Scarsdale	GR2-0754
Ohio	A. N. Grimm	1731 Ruskin Rd. Dayton	CR7-1496
Wash	B. Persitz	114 Garfield St. Seattle 9	AT3-1965
Can	B. H. McGregor	8 Glen Stewart Ave. Toronto 8, Ontario	OX9-5521

HAVEG INDUSTRIES, INC. .... 900 Greenbank Rd. Wilmington 8, Del WY8-2271

HAWKER SIDDELEY NUCLEAR POWER CO. LTD. Sutton Ln. Langley, Nr. Slough, Bucks, Eng..... SL24451

HAWS DRINKING FAUCET CO. 1439 Fourth St. Berkeley 10, Cal LAS-5801

Cal	L. E. Shaffer Co.	807 Mateo St. Los Angeles 21	MA9-3275
Colo	C. M. Dillon	1031 Bannock St. Denver 4	AC2-6102
Fla	Paul Zangmaster	Box 10661, Tampa	63-7411
Ill	Jonathan-Morman Associates	2600 W Madison St. Chicago 12	MO6-2457
Mich	Gillespie Sales	14575 Grandmont Rd. Detroit 27	VE7-9836
Mo	S. C. McCann Co.	2600 Oak St. Kansas City 8	VE2-3505
Mont	C. L. Boyer & Co.	1002 Division St. Billings	2-3941
NY	W. Hein	457 W 57th St. New York 19	CO5-8450
Pa	J. N. Murphy	Corner 2nd & Wishart Sts. Philadelphia 32	RE9-4000
Tex	J. L. Fitzgerald	4612 Cole Ave. Dallas 5	LA1-7109
Wash	C. Pacher	402 1st Ave. W, Seattle 99	AT4-1880
BC	R. Somerville, Ltd.	2720 Crescentview Dr. N Vancouver	YU8-0403

HAYDON MFG. CO. ..... 245 E Elm St. Torrington, Conn

HAYNES STELLITE CO. DIV. UCC 1020 W Park Ave. Kokomo, Ind GL2-5421

HAYS CORP. ..... Michigan City 40, Ind TR2-5561

Cal	The Hays Corp.	8721 S Western Ave. Los Angeles 47	
Colo	Joy & Cox, Inc.	5124 Broadway, Denver 2	
Ga	Boiler Eqpt. Service Co.	1079 Alco St. NE, Atlanta 6	
Mass	The Timross Co.	259 Walnut St. Boston 60	
Mich	Metzol Co.	7145 E Davison, Detroit 12	
NJ	Energy Control Co., Inc.	472 E Westfield Ave. Roselle Park	
NY	Energy Control Co., Inc.	5 Beekman St. New York 38	
Pa	Energy Control Corp.	3147 N Broad St. Philadelphia 32	
Pa	J. D. Hiles Co., Inc.	1014 Plaza Bldg. Pittsburgh 19	
Tex	Puffer Sweiven, Inc.	6015 Hillcroft, Houston 27	
Wash	Branom & Leeland Inst. Co.	2137 2nd Ave. Seattle	

HAYS MFG. CO. ..... 814 W 12th St. Erie, Pa

HAYWARD SCIENTIFIC GLASS CORP. 217 N Magnolia Ave. Whittier, Cal.

HAYWARD TYLER & CO. LTD. 82 Pall Mall, London W1, Eng

NY	A. Ivanoff	20 Brookside Dr. Greenwich, Conn	NO1-8711

HAZLETON-NUCLEAR SCIENCE CORP.
4062 Fabian Way, Palo Alto, Cal

HEALD MACHINE CO. THE ..... 10 New Bond St. Worcester 6, Mass PL5-3191

Cal	Harron, Rickard, McCone	3850 Santa Fe Ave. Los Angeles 58	LU2-8361
Ill	The Heald Machine Co.	6645 W North Ave. Oak Park	EU3-1188
Ind	The Heald Machine Co.	1841 N Meridian St. Indianapolis 2	WA6-3378
Mich	The Heald Machine Co.	750 W 8 Mile Rd. Detroit 20	JO4-5801
Mich	The Heald Machine Co.	1838 Hall St. Holt	OX4-8881
NY	The Heald Machine Co.	17 Elm St. Morristown, NJ	JE8-5611
NY	The Heald Machine Co.	2900 Erie Blvd. E, Syracuse	GR4-6529
Ohio	The Heald Machine Co.	11 W Monument Ave. Dayton 2	BA8-4109
Ohio	The Heald Machine Co.	3669 Lee Rd. Cleveland 20	WY1-6300
Pa	The Heald Machine Co.	57 West Ave. Wayne	MU8-2933
Wis	The Heald Machine Co.	5341 W Fond DuLac, Milwaukee 16	HI5-5440

HEALTH PHYSICS SERVICES, INC. 1111 Law St. Baltimore 2, Md. DI2-2000

HEAT-X, INC. ..... Brewster, NY

Cal	Heat-X, Inc.	2506 W 3rd St. Los Angeles	DU5-6471
Cal	Heat-X, Inc.	1495 Bayshore Blvd. San Francisco	JU6-7585
Conn	Heat-X, Inc.	179 South St. West Hartford	CH9-8671
Ga	Heat-X, Inc.	216 Church St. Decatur	FR7-8055
Ill	Heat-X, Inc.	5451 N Lincoln Ave. Chicago	LO1-7973
Mich	Heat-X, Inc.	16221 Wyoming Ave. Detroit	DI1-3973
NY	Heat-X, Inc.	350 E 43rd St. New York	MU9-2880
Pa	Heat-X, Inc.	301 York Rd. Jenkintown	TU7-7550

HEATH CO. ..... Benton Harbor, Mich YU3-3961

HEATRON, INC. ..... Box 54, York, Pa 6230

Cal	Sales Engineering Service	250 N Fair Oaks Ave. Pasadena	
Ill	P. Wilson	1080 S Wabash Ave. Chicago	WA2-8883

NY	D. Snow	233 Broadway, New York 7	DE5-5027
Pa	Control Eqpt. Distributors	Box 10921, Pittsburgh 36	TU4-3494

HEILAND DIV. OF MINNEAPOLIS-HONEYWELL REG. CO. ..... 5200 E Evans Ave. Denver 22, Colo SK6-2681

Cal	Minneapolis-Honeywell Reg. Co.	6820 Telegraph Rd. Los Angeles 22	
Cal	Minneapolis-Honeywell Reg. Co.	2 Dorman Ave. San Francisco 24	
Colo	Minneapolis-Honeywell Reg. Co.	2180 S Dahlia, Denver 22	
DC	Minneapolis-Honeywell Reg. Co.	4926 Wisc. Ave. NW, Washington 16	
Ga	Minneapolis-Honeywell Reg. Co.	1415 Howell Mill Rd. NW, Atlanta	
Ill	Minneapolis-Honeywell Reg. Co.	7350 N Lincoln Ave. Chicago 30	
Minn	Minneapolis-Honeywell Reg. Co.	1885 Douglas Dr. N, Minneapolis 22	
NY	Minneapolis-Honeywell Reg. Co.	24-20 Skillman Ave. Long Island City 1	
Ohio	Minneapolis-Honeywell Reg. Co.	1900 Superior Ave. Cleveland 14	
Ore	Minneapolis-Honeywell Reg. Co.	2800 SE Belmont, Portland 14	
Pa	Minneapolis-Honeywell Reg. Co.	3345 W Hunting Park Ave. Philadelphia 32	
Tex	Minneapolis-Honeywell Reg. Co.	8000 N Central Expwy. Dallas 6	

HEINEMANN ELECTRIC CO. .. Box 299, Trenton, NJ TU2-4800

Cal	D. Porter Co.	1117 S Robertson Blvd. Los Angeles	BR5-4243
Colo	P. A. Douden & Co.	1645 Wazee St. Denver	TA5-6894
Ga	The Gearhart Co.	The Gearhart Bldg. Atlanta 19	CE3-4431
Ill	Ellman & Zuckerman	119 S Jefferson St. Chicago	CE6-3905
Md	L. T. McCourt & Son	610 Washington Ave. Towson, Baltimore	VA3-3455
Mass	Electrical Apparatus Co., Inc.	1250 Soldiers Field Rd. Boston 34	ST2-7440
Mo	J. Zieger	5822 Macklind Ave. St. Louis	FL2-8191
NJ	Ballou Inc.	51 N Broad St. Ridgewood	GI6-6900
NY	V. J. Brown Co.	504 Ellicott Square Bldg. Buffalo 3	CL1122
Ohio	O. H. Bromberg & Assoc.	561 Reading Rd. Cincinnati	DU1-5728
Pa	Brown Electrical Eqpt. Co.	1612 Potomac Ave. Pittsburgh	LO3-4444
Tex	Glidden Eng. & Eqpt. Co.	3802 Winchester St. Houston 3	CA4-6471

HELICOID GAGE DIV. AMERICAN CHAIN & CABLE CO., INC.
929 Connecticut Ave. Bridgeport 2, Conn

HELIPOT DIV. BECKMAN INSTRUMENTS, INC.
2500 Fullerton Rd. Fullerton, Cal TR1-4848

Cal	G. S. Marshall Co.	2065 Huntington Dr. San Marino	MU1-6781
Colo	A. I. Williams Co.	2263 S Albion St. Denver 22	SK6-9403
Fla	Lynch-Gentry Assoc. Inc.	406 Danley Dr. Fort Myers	WE6-2181
Ill	Magnuson Associates	3347 W Irving Park Rd. Chicago 18	KE8-7555
Mass	Elcron Eng. Sales Co.	248 Walnut St. Newtonville 60	DE2-6975
Mich	S. Sterling Co.	15310 W McNichols Rd. Detroit 35	BR3-2906
Mo	Harris-Hanson Co.	2814 S Brentwood Blvd. St. Louis 17	MI7-4350
NJ	Angus-Sloane Assoc.	Rt. 28, Moorestown	BE5-1900
NY	E. A. Ossmann & Assoc.	850 Linden Ave. Rochester 16	LU6-4940
NC	Bivins & Caldwell, Inc.	1923 N Main St. High Point	HI2-6873
Ohio	Sheridan Associates, Inc.	Roselawn Center Bldg. Cincinnati 37	ME1-2480
Tex	Norvell Associates	3603 Lemmon Ave. Dallas 19	LA6-7861

HENDREY RELAYS LTD. ..... 392 Bath Rd. Slough, Bucks, Eng BU609/611

HEPPENSTALL CO. ..... Pittsburgh, Pa MA1-2000

Cal	Heppenstall Co.	6440 Fleet St. Los Angeles 22	RA3-5578
Conn	Heppenstall Co.	945 Asylum Ave. Hartford 5	CH6-7434
DC	Heppenstall Co.	777 14th St. NW, Washington 5	NA8-8127
Ill	Heppenstall Co.	1 N La Grange Rd. La Grange	FL4-5100
Ind	Dessauteis Co., G. O.	2302 N Meriden St. Indianapolis 8	WA3-2408
Mich	Heppenstall Co.	3690 W Jefferson Ave. Detroit 32	TA5-5335
NY	Heppenstall Co.	Box 1066, Schenectady	DE6-4889
NY	Heppenstall Co.	120 Broadway, New York	BE3-1713
NY	Brace-Mueller-Huntley, Inc.	2000 Military Rd. Buffalo 5	VI8700
Ohio	Heppenstall Co.	502 Terminal Tower, Cleveland 13	CH1-5260
Pa	Heppenstall Co.	Box 9727, Nicetown	BA8-7283

HERMASEAL CO. INC. ..... 1181 Lafayette St. Elkhart, Ind CO4-1119

Cal	K. Meussdorffer	9491 Cahuenga Blvd. Los Angeles	HO2-6039
NY	Durakool of New York	4747 Bronx Blvd. New York	FA4-8000

HERMES ELECTRONICS CO. .. 75 Cambridge Pkwy. Cambridge 42, Mass .. UN4-7200

Cal	Kittleson Co.	416 N La Brea Ave. Los Angeles	WE3-7371
Conn	Instrument Dynamics, Inc.	2365 Main St. Stratford	DW8-0455
DC	Hermes Electronics Co.	Tyler Bldg. Arlington, Va	JA3-7300
Ga	Scientific Sales Engineering Co.	2162 Piedmont Rd. NE, Atlanta	TR3-2475
Ill	Pivan Engineering Co.	3542 Peterson Ave. Chicago	KE9-4838
Mass	Instrument Dynamics, Inc.	11 Albion St. Wakefield	CR6-5100
Mich	The Satullo Co.	4512 N Woodward Ave. Royal Oak	LI9-5918
Mo	Design & Sales Engineering Co.	7608 Forsyth Blvd. St. Louis 5	FA1-6402
NY	Naylor Electric Co., Inc.	1718 Erie Blvd. E, Syracuse	GR2-9183
NY	Wild & Associates	1519 Northern Blvd. Roslyn	MA1-8060
Wash	B. Persitz	114 Garfield, Seattle	AT3-1965
Por	Henley & Co., Inc.	202 E 44th St. New York 17	YU6-5544

HERMETIC SEAL TRANSFORMER CO. DIV.
DRESSER INDUSTRIES CO. .... 555 N. 5th St. Garland, Tex BR6-5141

Cal	Engineering Liaison Associates	11168 Santa Monica Blvd. Los Angeles	BR2-5133
Fla	Buchanan & Abrams Associates	Box 6026, Orlando	GA3-8995
Md	J-H Electronic Sales Co.	Box 6844, Towson	VA5-4441
Neb	L. F. Florence	406 W 34th St. Kansas City, Mo.	LO1-7282
NY	S. Wimpie Associates	610 W Boston Post Rd. Mamaroneck	OW8-7190
NY	Technical Sales, Inc.	2900 Erie Blvd. E, Syracuse	GR2-7524
Ohio	Holstetter-Soenke	131 N Ludlow St. Dayton	BA2-2897
Tex	Lawrence Sales Co.	Box 13026, Dallas	FL3-7484
Utah	T.R. Van Wagoner	1415 S Main St. Salt Lake City	HU6-7251
Wis	A. Engineering Sales Co.	11216 W Mallory, Hales Corners	GA5-5919

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	HERRING-HALL-MARVIN SAFE CO. DIV. DIEBOLD, INC.	**Hamilton, Ohio**	**TW4-8301**
	HEVI-DUTY ELECTRIC CO. DIV. BASIC PRODUCTS CORP.	**Box 563, Milwaukee 1, Wis**	**UP1-9100**
Cal	Hevi-Duty Electric Co.	10826 Venice Blvd. Culver City	VE7-1205
Ill	Hevi-Duty Electric Co.	5816 W North Ave. Chicago	NA2-6565
Mich	Hevi-Duty Electric Co.	8830 W McNichols Rd. Detroit	DI1-3266
NJ	Hevi-Duty Electric Co.	84 Industrial Ave. Little Ferry	DI3-2950
Ohio	Hevi-Duty Electric Co.	14900 Detroit Ave. Cleveland	AC1-0333
	HEWLETT-PACKARD CO.	**1501 Page Mill Rd. Palo Alto, Cal**	**DA6-7000**
	HI-G, INC.	**Bradley Field, Windsor Locks, Conn**	
Ariz	Penwarden/Dailey Associates	7311 Van Nuys Blvd. Van Nuys, Cal	ST2-4920
Cal	Penwarden/Dailey Associates	7311 Van Nuys Blvd. Van Nuys	ST2-4920
Colo	Barnhill Associates	1170 S Sheridan Blvd. Denver	WE5-4645
Ill	Gassner & Clark Co.	6644 N Western Ave. Chicago 45	RO4-6121
Ind	Gassner & Clark Co.	6644 N Western Ave. Chicago 45, Ill	RO4-6121
Iowa	Gassner & Clark Co.	6644 N Western Ave. Chicago 45, Ill	RO4-6121
Mass	John E Boeing Co.	Box 235, Lexington 73	VO2-2500
Nev	Penwarden/Dailey Associates	7311 Van Nuys Blvd. Van Nuys, Cal	ST2-4920
NM	Barnhill Associates	1170 S Sheridan Blvd. Denver, Colo	WE5-4645
NY	H W Brede Co.	689 Glen Cove Rd. Glen Head	OR6-4900
Utah	Barnhill Associates	1170 S Sheridan Blvd. Denver, Colo	WE5-4645
Wis	Gassner & Clark Co.	6644 N Western Ave. Chicago 45, Ill	RO4-6121
	HICKOK ELECTRICAL INSTRUMENT CO.	**10501 Dupont Ave. Cleveland 8, Ohio**	
Cal	Hickok Elec. Instrument Co.	2585 Shattuck Ave. Berkeley 4	TH5-1771
Ga	Hollingsworth & Still	508 Whitehead Bldg. Atlanta	MU8-5878
Ill	L. C. McCarthy	7117 W Addison St. Chicago 34	KI5-7976
Ind	Fishman Associates	1836 Nottingham Dr. Indianapolis 20	VI6-8221
Kan	G. W. Kangas Sales Co.	10506 W 89th St. Overland Park	TU8-5213
Mass	Johnson Associates	414 Main St. Wakefield	CR6-5500
Minn	N. J. Laub Co.	3749 W Broadway, Minneapolis 22	JU8-4663
NJ	R. K. Arbogast	257 Ell Rd. Hillsdale	NO4-5656
NY	R. W. Mitscher Co, Inc.	487 Ellicott Square Bldg. Buffalo 3	WA2517
Pa	C. E. Babcock Co.	430 Huntington Dr. Wayne	MU8-8288
Va	G. E. Wolfe	7120 Falcon St. Annandale	EX3-2692
For	Hickok Elec. Instrument Co.	333 E 46th St. New York 17, NY	YU6-2244
	HIGH VACUUM EQUIPMENT CORP.	**2 Cherchill Rd. Hingham, Mass**	**RI9-2430**
Ariz	Denton & Anderson Co.	5526 N Roseread Blvd. Temple City, Cal	CU3-8436
Cal	Denton & Anderson Co.	5826 N Roseread Blvd. Temple City	CU3-8436
DC	J. B. Israel	218D Haddon Hills Apt. Haddonfield, NJ	HA9-2765
Mass	F. Musselman	305 Nesmith St. Lowell	
NY	Robinson Technical Products	Teterboro, NJ	AT8-2500
Ohio	Denton & Anderson Co.	3740 Salem Ave. Dayton 6	CR7-9327
Pa	J. B. Israel	218D Haddon Apt. Haddonfield, NJ	HA9-2765
	HIGH VOLTAGE ENGINEERING CORP.	**5 Bedford St. Burlington, Mass**	**BR2-1313**
Cal	High Voltage Engineering Corp.	680 Marshall Ct. Redwood City	EM9-6507
Mass	Addelco Corp.	1826 Centre St. West Roxbury 32	FA3-7940
Tex	Southwestern Eng. & Eqpt. Co.	4045 Lemmon Ave. Dallas 19	LA6-7433
Aus	Watson Victor Ltd.	Watson Hse. 9-13 Bligh St. Sydney	BW-4433
Eng	High Voltage Servicing Co., Ltd.	60 Carpenters Wood Dr. Chorley Wd. Herts	CH572
Fr	SAPHYMO	9 Place des Etats-Unis, Paris	PAS46-80
Ger	Leybold Hochvakuum	Bonner Str. 504, Koeln/Bayental	KO4716
Ital	Alfa Beta Gamma, S. r. l.	Via por Santa Maria 8, Florence	284560
Jap	Marubeni-Iida Co., Ltd.	Box 596, Tokyo	TK-2327
S. Af	Protea Holdings Limited	7 Newton St. Wemmer, Johannesburg	33-2211
Swed	LKB-PRODUKTER	Fabriksaktiebolag, Box 12220, Stockholm	289160
	HIGH VOLTAGE SERVICING CO. LTD.	**60 Carpenters Wood Dr. Chorley Wood Herts, Eng**	**FI7431**
Eng	High Voltage Servicing Co. Ltd.	8 Kildare Cl. Eastcote, Middx.	FI7431
	HIGHSIDE CHEMICALS, INC.	**4-10 Colfax Ave. Clifton, NJ**	**PR7-0626**
	HILD FLOOR MACHINE CO., INC.	**1217 W Washington Blvd. Chicago, Ill**	**MO6-8890**
Cal	Hild Floor Machine Co., Inc.	4271 W 3rd St. Los Angeles 5	DU2-2376
Fla	Hild Floor Machine Co., Inc.	2032 N Dixie, W Palm Beach	
NY	Hild Floor Machine Co., Inc.	250 E 43rd St. New York 17	MU4-3206
Wis	Hild Floor Machine Co., Inc.	4419 W Center St. Milwaukee	HI5-9970
	HILGER & WATTS, LTS.	**98 St. Pancras Way, London N. W. 1, Eng**	**GU5636**
Ill	Engis Equipment Co.	431 S Dearborn St. Chicago 5	
	HILL CO., C.R.	**35 W Grand River, Detroit 26, Mich**	
	HILL & CO., E. VERNON	**Box 189 Lake Geneva, Wis**	**CH8-3729**
	HILLS McCANNA CO.	**4605 W Touhy Ave. Chicago 46, Ill**	**OR4-7080**
	HITACHI, LTD.	**1-4 Marunouchi, Chiyoda-ku Tokyo, Jap**	**(271) 1111**
NY	Hitachi New York, Ltd.	501 5th Ave. New York 17	YU6-5257
	HODES-LANGE CORP.	**2015 85 St. North Bergen, NJ**	
	HOFFMAN ELECTRON TUBE CORP.	**804 Salisbury Park Dr. Westbury, NY**	**ED4-5600**
Cal	Sodaro Co.	9400 Culver Blvd. Culver City	VE8-5272
Cal	White & Co.	788 Mayview Ave. Palo Alto	DA1-3350
Fla	W. E. Wolcott Co.	Box 1523, Winter Park	MI7-3498
Ill	Central Engineering Sales Co.	6272 W North Ave. Chicago 39	TU9-7686
Mass	Addelco Corp.	1826 Centre St. W Roxbury	FA3-7940
NM	E. G. Miller, Jr., Co.	210 Cagua Dr. NE, Albuquerque	AL6-1585
NY	M. P. Andrews, Inc.	Fayetteville	NE7-6405
Ohio	R. W. Lichtinger Co.	2472 Edgerton Rd. Cleveland	EV2-8210
Ore	J. G. Severson Co.	1517 NW Hoyt St. Portland	CA8-7209
Tex	E. G. Miller, Jr., Co.	Box 929, Henderson	
	HOFFMAN ELECTRONICS CORP. SEMICONDUCTOR DIV.	**930 Pitner Ave. Evanston, Ill**	**UN9-2400**
Cal	Hoffman Electronics Corp.	1001 N Arden Dr. El Monte	CU3-7191
Cal	Hoffman Electronics Corp.	1575 Laurel Ave. San Carlos	LY3-9334
Cal	Hoffman Electronics Corp.	633 Alameda Blvd. Coronado	HE5-9076
DC	Hoffman Electronics Corp.	1625 "I" St. NW, Washington 6	ST3-4658
Fla	Hoffman Electronics Corp.	4230 SW 15th St. Miami 44	HI3-6665
Mass	Hoffman Electronics Corp.	175 Dartmouth St. Boston	KE6-3849
NJ	Hoffman Electronics Corp.	710 Mattison Ave. Asbury Park	PR6-7600
NY	Hoffman Electronics Corp.	4446 Main St. Buffalo 26	CI2094
NY	Hoffman Electronics Corp.	310 Northern Blvd. Great Neck	HU7-2660
Ohio	Hoffman Electronics Corp.	4110 Secor Rd. Toledo 13	GR2-5632
Tex	Hoffman Electronics Corp.	6300 N Central Expwy. Dallas 6	EM1-7964
	HOFMAN LABORATORIES, INC.	**5 Evans Term. Hillside, NJ**	**EL4-4016**
Cal	B. Martin Co., Inc.	905 Mission St. S Pasadena	MU2-2861
DC	C. B. Henderhott	1026 17th St. NW, Washington	EX3-1441
Fla	R. W. Fowler & Associates, Inc.	1222 3rd St. S, Jacksonville Beach	CH6-2477
Md	D. Jewett	110 N 8th St. Richmond 19, Va.	AT2-1150
Ohio	Distributor Sales Co.	24431 Oakhill Dr. Cleveland 17	IV1-5364
	HOGAN FAXIMILE CORP. SUB. TELAUTOGRAPH CORP.	**635 Greenwich St. New York 14, NY**	**CH2-7865**
	HOKE, INC.	**1 Tomkill Park, Crosskill, NJ**	**LO8-9100**
Ga	Caesar Trunzo	1474-C La Vista Rd. Atlanta 6	636-8691
Ill	W. Feigen	9053 Grace Ave. Niles	VA4-0831
NY	J. D. Cosenza	3237-212 St. Bayside 61	BA5-2996
NY	J. D. Spanier	825 Longfellow Ave. Bronx	LU9-0083
Pa	S. L. Tropiano	484 Hoodridge Dr. Pittsburgh 34	LO3-5863
Pa	W. L. Briggs	52-39 Palmers Mill Rd. Clifton Hts.	MA6-5078
Tex	R. L. Callaghan	3702-C Audley St. Houston 6	JA2-8850
	HOLLEY CARBURETOR CO.	**11955 E 9 Mile Rd. Warren, Mich**	**JE6-1900**
	HOLMES & NARVER, INC.	**828 S Figueroa, LA 17, Cal**	**MA7-4377**
	HONEYWELL CONTROLS, LTD.	**Vanderhoof Ave. Toronto, Ont, Can**	**HU9-2151**
Alb	Honeywell Controls, Ltd.	102-58th Ave. SW, Calgary	CH3-3428
Alb	Honeywell Controls, Ltd.	11820-142 St. Edmonton	GL5-9151
BC	Honeywell Controls, Ltd.	1128 Burrard St. Vancouver, BC	AL5-6511
Man	Honeywell Controls, Ltd.	540 Roseberry St. St. James, Winnipeg	SP4-2511
NS	Honeywell Controls, Ltd.	755 Barrington St. Halifax	3-7303
Ont	Honeywell Controls, Ltd.	1478 Merivale Rd. Ottawa 5	PA9-4381
Ont	Honeywell Controls, Ltd.	270 Parkdale Ave. N, Hamilton	LI9-4101
Ont	Honeywell Controls, Ltd.	612 Colborne St. London	GE8-6125
Ont	Honeywell Controls, Ltd.	1071 Copper Cliff Rd. Sudbury	OS4-8386
Que	Honeywell Controls, Ltd.	2786 Blvd. Sir Wilfrid Laurier, Que 10	LA7-3459
Que	Honeywell Controls, Ltd.	6277 Upper Lachine Rd. Montreal	HU4-3501
Sask	Honeywell Controls, Ltd.	1470 Pasqua St. Regina	JO8-2141
	HONEYWELL ELECTRONIC DATA PROCESSING DIV.	**60 Walnut St. Wellesley Hills 81, Mass**	**CE5-7450**
Cal	Honeywell Electronic Data	1017 Wilshire Blvd. Los Angeles 17	HU1-1830
Cal	Honeywell Electronic Data	2 Dorman Ave. San Francisco 24	AT8-0118
DC	Honeywell Electronic Data	1825 Connecticut Ave. NW, Washington	DE2-2300
Ga	Honeywell Electronic Data	1415 Howell Mill Rd. Atlanta	TR4-9776
Ill	Honeywell Electronic Data	77 S Wacker Dr. Chicago 6	RA6-9206
Mass	Honeywell Electronic Data	624 Worcester Rd. Framingham	TR2-6508
Mich	Honeywell Electronic Data	Fisher Bldg. Detroit 2	TR2-5855
NY	Honeywell Electronic Data	261 Madison Ave. New York 16	MU7-0525
Pa	Honeywell Electronic Data	3345 W Hunting Park Ave. Philadelphia	BA6-2400
Tex	Honeywell Electronic Data	5440 Gulf Freeway, Houston 1	WA8-2451
	HOOKER CHEMICAL CORP.	**Niagara Falls, NY**	
Cal	Durez Plastics Div.	6277 E Slauson Ave. Los Angeles 22	OV5-8910
Ill	Durez Plastics Div.	1 N LaSalle St. Chicago 2	FR2-8757
Mich	Durez Plastics Div.	503 Stephenson Bldg. Detroit 2	TR3-3700
NY	Hooker Chemical Corp.	666 5th Ave. New York 19	PL7-9600
NY	Durez Plastics Div.	120 Delaware Ave. Buffalo 2	MA7525
Ohio	Durez Plastics Div.	333 W 1st St. Dayton	BA2-7436
	HOUSTON INSTRUMENT CORP.	**Box 22234, Houston 27, Tex**	**MO7-7405**
Cal	W. K. Geist Co.	3177 Glendale Blvd. Los Angeles 39	NO5-1195
Ill	Anderson Automation	16 E View St. Lombard	MA7-1094
Mass	J. M. Lancaster Co.	65 Concord St. Framingham	TR3-8893
Mich	J. L. Peirce Co.	16666 James Couzens Hwy. Detroit 21	UN2-2571
NJ	QED Electronic Sales, Inc.	9 Elm Ave. Mt. Vernon, NY	MO8-3100
NY	QED Electronic Sales, Inc.	9 Elm Ave. Mt. Vernon	MO8-3100
NC	J. L. Highsmith & Co.	3733 Monroe Rd. Charlotte 5	FR7-2546
Ohio	Elliott-Sarles Co.	23473 Concord Dr. Westlake	ED1-8911
Tex	Servo/Electronic Products Co.	Box 13371, Dallas 20	FL1-4653
	HOWARD INDUSTRIES, INC.	**Racine, Wis**	**ME2-2731**
Cal	Howard Industries Inc.	942 La Brea Ave. Los Angeles	WE8-2444
Mich	L. H. Dickelman Co.	18450 Livernois Ave. Detroit	UN4-4376
Minn	The Hiemann Co.	1711 Hawthoren Ave. Minneapolis	FE2-5457
Mo	Howard Industries Inc.	1029 Front St. Festus	YE7-3606
NJ	Howard Industries Inc.	157 Broad St. Red Bank	SH1-2358

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	HUGGINS LABORATORIES, INC.	**999 E Arques Ave. Sunnyvale, Cal**	**RE6-9330**
Cal	J. P. O'Halloran & Associates	11636 Ventura Blvd. N Hollywood	TR7-0173
Colo	E. K. Kelley	338 E 4th St. Loveland	NO7-1376
Ga	E. G. Holmes & Associates	4989 Roswell Rd. NE, Atlanta 5	BL5-6660
Ill	Cozzens & Cudahy, Inc.	125 Old Archard Arcade, Skokie	OR5-6700
Mo	G. Fixman Engineering Co.	8160 Stanford Ave. St. Louis	PA5-5219
NY	Burlingame Associates	510 S Fulton Ave. Mount Vernon	MO4-7530
Ohio	Electro Sales Associates	281 E 216th St. Cleveland 23	RE2-7444
Tex	Airep Engineering Co.	Box 9555, Dallas	TA4-3800
Wash	J. K. Dodley Co. Inc.	3215 Western Ave. Seattle	AT4-8313
Can	Radionics, Limited	8230 Mayrand St. Montreal 9, Que	RF9-5517
	HUGHES AIRCRAFT CO. NUCLEAR ELECTRONIC PRODUCTS	**Intl. Airpt. Sta. Box 90515, LA 45, Cal**	
Cal	Hughes Aircraft Co.	201 Town & Country Vlg. Palo Alto	DA3-7740
DC	Hughes Aircraft Co.	1612 K St. NW, Washington 6	ST3-3282
NJ	Hughes Aircraft Co.	91 E Front St. Redbank	SH1-4224
Ohio	Hughes Aircraft Co.	1313 Talbott Tower, Dayton 2	BA4-1061
	HUGHES SEMICONDUCTOR DIV.	**500 Superior Ave. Newport Beach, Cal**	**LI8-0671**
Cal	Hughes Semiconductor Div.	690 N Sepulveda Blvd. El Segundo	OR8-6125
Colo	Hughes Semiconductor Div.	3385 S Bannock, Englewood	SU9-0549
DC	Hughes Semiconductor Div.	2000 K St. NW, Washington 6	FE7-6760
Fla	Hughes Semiconductor Div.	104 E Gore Ave, Orlando	CH1-2538
Ill	Hughes Semiconductor Div.	6120 W North Ave. Chicago 39	NA2-0283
Mass	Hughes Semiconductor Div.	4 Federal St. Woburn	WE3-4824
Mich	Hughes Semiconductor Div.	19440 Livernois Ave. Detroit	UN3-6700
Minn	Hughes Semiconductor Div.	6121 Excelsior, Minneapolis 16	WE9-0461
NJ	Hughes Semiconductor Div.	80 Mulberry St. Newark 2	MA3-3520
NY	Hughes Semiconductor Div.	224 Harrison St. Syracuse 2	GR1-0163
NY	Hughes Semiconductor Div.	600 Old Country Rd. Garden City	PL1-4620
Ohio	Hughes Semiconductor Div.	816 Swifton Center, Cincinnati 37	EL1-5665
	HULL ASSOCIATES	**30 W Monroe St. Chicago 3, Ill**	
	HUMBLE OIL & REF. CO. HUMBLE DIV.	**Box 2180, Houston 1, Tex**	**JA9-4141**
	HUMPHREYS & GLASGOW LTD.	**22 Carlisle Pl. London SW1, England**	**VI8454**
Aus	Humphreys & Glasgow Ltd.	82 Elizabeth St. Sydney	BW7528
Can	Humphreys & Glasgow (Can) Ltd.	Leslie St. at Sheppard, Don Mills, Ont.	HI4-6271
	HUNSLET PRECISION ENGRG. LTD.	**Leeds, 10, Eng**	**LE3-2261**
	HUNT (CAPACITORS) LTD., A. H.	**Bendon Valley, Garratt Ln. Wandsworth, London SW18, Eng**	**VA6454**
	HUPPERT, CO., K.H.	**6830 S Cottage Grove Ave. Chicago 37, Ill**	**MI3-4770**
	HURON INDUSTRIES	**Box 104, Port Huron, Mich**	**YU4-4213**
	HYDEL, INC.	**223 Crescent St. Waltham 54, Mass**	**TW3-8200**
	HYDRO HONE DIV. GEMAIR, INC.	**11055 S Palmer Ave. South Gate, Cal**	**SP3-4982**
Cal	Hydro Hone	1876 Industrial Way, Redwood City	EM9-6241
Cal	Hydro Hone Div. Gemair Inc.	907 American, San Carlos	LY3-6130
	HYDROMATICS, INC.	**70 Okner Pkwy. Livingston, NJ**	**WY2-4900**
Tex	Hydromatics, Inc.	1601 Calumet St, Houston 4	
	HYSOL, INC.	**Olean, NY**	**2-2175**
Cal	Hysol of California	1706 Potrero, S El Monte	CU3-8461
Conn	J. D. Peters	Birch Dr. Easton	ED9-6643
Fla	Johnson Associates of Florida	Box 1676, Casselberry	MI4-3311
Ill	H. Halinton	6400 Leoti Ave. Chicago 46	RO3-2131
Kan	D & O Engineering Co., Inc.	1810 E Harry St. Wichita	AM2-3052
Md	Speciality Elect. Sales Co.	4119 Hayward Ave. Baltimore 15	LI2-4477
Minn	The Industra Co.	6504 Walker St. Minneapolis 26	WE9-6224
NH	J. M. O'Connell	Maple Ave. Atkinson	DA9-6622
NJ	W. M. Punnett Co.	The 206 Center, Princeton	WA1-2000
NY	General Industrial Sales	Box 153, Olean	OL3632
NY	D. F. Wolcott	4004 St. Paul Blvd. Rochester	FI2-3120
Ohio	Servisales Co.	12417 Cedar Rd. Cleveland 6	ER1-0054
	ILG ELECTRIC VENTILATING CO.	**2850 N Pulaski Rd. Chicago 41, Ill**	**KI5-1520**
Cal	ILG Electric Ventilating Co.	1709 W 8th St. Los Angeles 17	HU3-7367
Cal	ILG Electric Ventilating Co.	55 New Montgomery St. San Francisco 5	SU1-0964
Conn	ILG Electric Ventilating Co.	968 Farmington Ave. Hartford	AD3-7681
Ill	ILG Electric Ventilating Co.	222 N LaSalle St. Chicago 1	FR2-1520
Ky	ILG Electric Ventilating Co.	319 W Jefferson St. Louisville	JU7-6842
La	ILG Electric Ventilating Co.	501 N Jefferson Davis, New Orleans	HU8-2654
Minn	ILG Electric Ventilating Co.	1775 Selby Ave. St. Paul 4	MI6-6111
NY	ILG Electric Ventilating Co.	15 Park Row 38, New York	BA7-8787
NC	ILG Electric Ventilating Co.	1052 Battleground Ave. Greensboro	BR3-0566
Ohio	ILG Electric Ventilating Co.	626 Broadway, Cincinnati 2	GA1-4640
Pa	ILG Electric Ventilating Co.	227 Haverford Ave. Narberth	MO4-2251
Tex	ILG Electric Ventilating Co.	1903 Calumet, Houston 4	JA9-5297
	ILLINOIS TESTING LABS., INC.	**420 N LaSalle St. Chicago 10, Ill**	**WH3-1331**
Mass	Osgood Engrg. Co.	110 Pleasant St. Malden	DA4-6008
NY	J. A. Ariano	136 Liberty St. New York 6	BE3-9223
NY	Nickles Engrg. Co.	830 Linden Ave. Rochester	LU6-4988
NY	R. P. Smith & Associates	446 James St. Syracuse	GR4-3933
Pa	L. H. Bolsky	Bellevue Suburban Bldg. Pittsburgh	PO 1-8894

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	ILLINOIS WATER TREATMENT CO.	**840 Cedar St. Rockford, Ill**	**WO8-9691**
Cal	H. J. Pouts & Co.	6253 Hollywood Blvd. Los Angeles 28	HO4-6511
Ill	R. Goyushor	5875 N Lincoln Ave. Chicago 45	LO1-1661
Iowa	G. S. Holland	3709 Franklin Ave. Des Moines 10	AT2-9212
Mass	Engineering Sales Corp.	Box 80, Newton Lower Falls 62	CE7-9690
Mich	L. J. Wicks	Box 1151, Ann Arbor	TU3-4170
Minn	C. E. Nelson, Inc.	2404 E Hennepin Ave. Minneapolis 18	FE1-1881
Mo	Passen Engineering Co.	9410 Chadwick, Kansas City 15	MI9-1312
NY	Illinois Water Treatment Co.	141 E 44th St. New York 17	MU7-7797
NY	V. J. Miller Co.	1107 State Tower Bldg. Syracuse 2	HA2-8426
Ohio	R. A. Mueller & Associates	920 E McMillan St. Cincinnati 6	PL1-0683
Pa	F. C. Hoover	Box 481, Pittsburgh 30	AT1-2894
Pa	The Stewart Miller Co.	1612 Market St. Philadelphia 3	LO7-5003
	IMHOF LTD., ALFRED	**112-116 New Oxford St. London WC1, Eng**	
Ohio	Bud Radio, Inc.	2118 E 55th St. Cleveland	HE1-7166
	IMPERIAL BRASS MFG. CO.	**6300 W Howard St, Chicago 48, Ill**	
	INDATOM	**48' rue de la Bastie, Paris 8, France**	**BA23-40**
	INDIANA GENERAL CORP.	**405 Elm St. Valparaiso, Ind**	**HO3-3131**
Ariz	Pryco	355 N Scottsdale Rd. Scottsdale	
Cal	Indiana General Corp.	16041 Ventura Blvd. Encino	ST9-7880
Fla	J. Gearmer Co.	235 Lincoln Rd. Miami Beach	JE1-0200
Ill	Indiana General Corp.	7012 W North Ave. Chicago 35	TU9-4323
Mass	Indiana General Corp.	681 Main St. Waltham 54	TW4-4841
NJ	Indiana General Corp.	12-94 Plaza Rd. Fair Lawn	SW1-1550
NY	Indiana General Corp.	1463 Monroe Ave. Rochester	HI5-0550
Ohio	Indiana General Corp.	23203 Lorain Rd. North Olmsted	RE4-5360
Pa	Indiana General Corp.	46 Garrett Rd. Upper Darby	FL2-4753
Tex	Allied Components, Inc.	2517 Converse St. Dallas	RI3-2830
	INDRUM CORP. OF AMERICA	**1676 Lincoln Ave. Union 4, NY**	
Cal	B. M. Thompson	4529 W 8th, Los Angeles	WE5-9542
NY	J. Irwin	60 E 42nd St. New York	MU9-8088
	INDUSTRIAL CONDENSER CORP.	**3243 N Calif Ave. Chicago 18, Ill**	**IN3-2200**
Cal	Nickerson-Gray & Associates	2434 Park Blvd. Palo Alto	DA6-0182
Conn	R. Perron & Co. Inc.	36 Louis St. Trumbull	AM8-9631
Mass	R. Perron & Co. Inc.	1870 Centre St. Boston 32	FA3-1008
Mich	E. F. Liddle	18925 Grand River Ave. Detroit 23	VE7-5310
NY	Rywel Sales, Inc.	100 N Village Ave. Rockville Centre	
NY	J. E. Wulfetange, Jr.	4505 E Genessee, DeWitt 14	GI6-3330
Ohio	Scott & Steffen, Inc.	1836 Euclid, Cleveland 15	TO1-2626
Pa	L. D. Lowery, Inc.	50 E Wynnewood Rd. Wynnewood	MI2-9100
Wis	E. A. Dickinson & Associates	4117 N Green Bay Ave. Milwaukee	CO4-1090
	INDUSTRIAL ENGINEERING CO.	**O'Fallon, Ill**	
	INDUSTRIAL ENGINEERING CORP.	**525 E Woodbine, Louisville, Ky**	**ME4-3601**
	INDUSTRIAL ENGINEERING & EQUIPMENT CO.	**24 Healey Industrial Ct. St. Louis (Brentwood) 17, Mo**	**MI7-3380**
	INDUSTRIAL FILTER & PUMP MFG. CO.	**5900 Ogden Ave. Cicero 50, Ill**	**BI7-1180**
Cal	Barth Engineering Co.	3871 Piedmont Ave. Oakland	
Colo	Equipment Specialties Co.	171 Vallejo St. Denver 23	
Fla	Process Equipment & Eng. Co.	2440 Jonila Ave. Lakeland	MU6-5657
Ill	Chemical Process Equipment	1012 Dobson, Evanston	BR3-2588
Mass	Johnson Engineering Sales Co.	66 Claypit Hill Rd. Wayland	EL8-7944
Mich	Dubois-Cooper Associates	10600 Puritan Ave. Detroit 38	UN3-6712
Neb	The Walling Co.	1514 Davenport St. Omaha	JA7044
NY	Cannon-Fleet	60 E 42nd St. New York 17	TU6-3590
Ohio	Farrell Engineering Co.	19115 Detroit Rd. Cleveland 16	ED3-0995
Pa	R. W. Fox Co.	Box 196, Newtown Square	
Pa	J. Place	90 Clairton Blvd. Pittsburgh 36	
Tex	White Engineering Co.	3515 Orchard Ridge Ct. Dallas 29	FL2-6995
	INDUSTRIAL FORGE & STEEL INC.	**1591 Allen Ave. SE, Canton, Ohio**	
	INDUSTRIAL HYGIENE ASSOCIATES	**295 Upland Ave. Newton Highlands 61, Mass**	**DE2-3877**
	INDUSTRIAL INSTRUMENTS, INC.	**89 Commerce Rd. Dept H, Cedar Grove, NJ**	**CE9-6300**
Cal	G. H. Vaughan Co.	2366 E Foothill Blvd. Pasadena	SY5-6420
Ga	W. K. Stallings Co.	3120 Maple Dr. NE, Atlanta 5	CE7-0600
Ill	Thomson & Co.	30 N LaSalle, Chicago 2	AN3-6056
Mass	The H. J. Schuft Co.	815 Washington St. Newtonville	LA7-5304
Mich	Anger Associates	13126 Michigan Ave. Dearborn	LU4-9653
Mo	E. B. Miller Co.	10117 Manchester Rd. St. Louis 22	YO6-8250
NJ	Gawler-Knoop Co.	178 Eagle Rock Ave. Roseland	CA6-4545
NC	MacGuire Instrument Co.	3214 Highview Rd. Charlotte 9	EM6-3454
Ore	Eryer & Co. Inc.	2035 SW 58th Ave. Portland 1	CA6-3733
Pa	K. J. Lesker Co.	4535 Vaman Ave. Pittsburgh	TU1-4656
Tex	Gay Sales Co.	420 Sul Ross St. Houston	JA9-3479
Can	Lisle Instrument Systems	805 Wilson Ave. Downsview, Ont	FL8-6736
	INDUSTRIAL NUCLEONICS CORP	**650 Ackerman Rd. Columbus 2, Ohio**	
Ala	N. A. Huffman	1805 4th St. NW, Birmingham 18	FA3-5094
Cal	M. J. Luthman	788 Miramar Terrace, Belmont	DI4-8981
Ind	E. J. Amberg	Atwater Rd, Beverly Shores	FI6-7918
NY	L. J. Phelan	10 Osprey Pl. Massapequa	JU3-7288
Ohio	J. E. Reider	2920 N Star, Columbus	AM7-6351

Pa	J. Yaklevich	144 Homestead Rd. Stafford-Wayne	MU8-6950
Tex	Industrial Nucleonics Corp.	Houston 5	JA2-9778

INDUSTRIAL OVER-ALL LAUNDRY ..... 1604 Thomaston Ave. Waterbury 14, Conn .. PL6-7944

INDUSTRIAL TEST EQUIPMENT CO. ..... 55 E 11th St. New York 3, NY

INDUSTRIAL TIMER CORP. .... 1406 McCarter Hwy. Newark 4, NJ HU4-5600

Cal	E. V. Roberts & Assoc.	5068 W Washington Blvd. Los Angeles	WE8-2541
DC	Naudain Bohaker & Co.	Suburban Sta. Bldg. Philadelphia, Pa	LO4-3194
Ill	Hill & Gray, Inc.	821 Garfield, Oak Pk.	EG8-7050
Ind	F. C. Valentine, Inc.	511 Ft. Wayne Bank Bldg. Fort Wayne	AN9122
Mass	White Sales Co. Inc.	945 Great Plain Ave. Needham	HI4-3676
Mich	Koehler-Pasmore	11833 Hamilton Ave. Detroit	TO8-3322
Neb	R. W. Farris Co. Inc.	406 W 34th St. Kansas City, Mo.	PL3-5350
NY	W. B. Swank, Inc.	2310 Bellevue Ave. Syracuse	GR8-2141
ND	The Klass Co.	814 S 9th St. Minneapolis, Minn	FE8-8427
Ore	C. B. Parsons Co.	3028 1st Ave. Seattle, Wash.	MU2-6780
Pa	R. F. Clark Co.	1401 Clark Bldg. Pittsburgh	AT1-8089
Tex	Lund & Co.	2215 N Olive St. Dallas	RI8-8839

INDUSTRIAL TRANSFORMER CORP. Gouldsboro, Pa VI2-2111

Fla	C. Small	Box 1346, Orlando	
Mass	Johnson Associates	414 Main St. Wakefield	
NY	J. Semple	21 Edgewater Ln. Rochester	
Pa	S. Lundy	224 Wickford Rd. Havertown	

INDUSTRIAL X-RAY & RESEARCH, INC. 880 Second St. Muskegon, Mich

INDUSTRO TRANSISTOR CORP. 35-10 36th Ave. Long Island City 6, NY

Ariz	C. Hower & Co.	369 N Craftsman's Ct. Scottsdale	WH5-2471
Cal	G. B. Ellis Sales Co.	2316 El Camino Real, Mountain View	YO7-5531
Colo	Hyde Electronics Co.	888 S Lipan St. Denver	WE5-3456
Ga	F. Fausett & Co.	777 Pinehurst Terrace SW, Atlanta	PL3-3104
Ill	H. W. Gebhard Co.	5129 W Devon Ave. Chicago	RO3-3036
Mass	V. J. Huntoon Associates, Inc.	908 Belmont Ave. Springfield	ST8-8518
Mo	E. B. Schwerin Co.	4210 Main St. Kansas City	WE1-7564
NJ	R. Lawson Co.	8 N Lincoln Ave. Wenonah	UL7-0089
NY	S. A. Shaw	361 Central Park Ave. Yonkers	YO3-5700
NY	E. W. Stone Co.	308 Merritt Ave. Syracuse	HO9-3825
Ohio	R. R. Stone & Associates	1925 Lee Rd. Cleveland Hts.	ER1-4484
Tex	E. F. Aymond Co.	Box 6595, Dallas	LA8-5233

INERTOL CO., INC. ..... 484-7 Frelinghuysen Ave. Newark 12, NJ .. BI3-2000

Cal	Inertol Co., Inc.	27 South Park, San Francisco 7	SU1-4475
Ill	Inertol Co., Inc.	461 W Erie St. Chicago 10	WH3-2510

INFILCO, INC. ..... Box 5033, Tucson, Ariz MA3-5401

Cal	L. K. Cecil	6404 Hollywood Blvd. Los Angeles	HO4-9281
Cal	F. S. Howard	1485 Bayshore Blvd. San Francisco	JU7-7852
Ill	E. M. Battey	325 W 25th Pl. Chicago	CA5-2525
Mass	A. I. Barry	7 McKinnon Ave. Milton 86	CU6-7246
Mich	G. A. McBride	1031 Mohawk Dr. Dearborn	TR2-8000
Mo	L. C. Webb	121 W 63rd St. Kansas City	DE3-6489
Neb	O. F. Barklage	423 S 38th Ave. Omaha 3	AT1312
NY	W. M. Gross	2 W 46th St. New York 36	CI5-0990
NC	J. G. Walters	Box 112, Derita	FR7-3878
Ohio	H. J. Karsten	10 N Main, Chagrin Falls	CH7-8544
Okla	R. P. Kuykendall	605 Mays Bldg. Tulsa 3	GI7-5453
Pa	D. D. Foster Co.	2210 Koppers Bldg. Pittsburgh 19	AT1-0864

INFRA RED DEVELOPMENT CO., LTD. 40 Tewin Rd. Welwyn Garden City Herts, Eng WE1591

INGERSOLL-RAND CO. ..... 11 Broadway, New York 4, NY DI4-6070

INGERSOLL STEEL DIV. BORG-WARNER CORP. New Castle, Ind JA9-0120

Ill	Ingersoll Steel Div.	200 S Michigan Ave. Chicago 4	WA2-7700

INSLEY INDUSTRIAL SUPPLY CO. LTD. 21-22 Poland St. London W 1, Eng

INSPECTION SERVICES LTD. OLDFIELDS TRADING EST .. Sutton By-pass, Sutton, Surrey, Eng FA4546

INSTRUMENT CORP. OF AMERICA ..... 1545 Kennewick Rd. Baltimore 18, Md CH3-8294

INSTRUMENT DEVELOPMENT LABS. INC. 67 Mechanic St. Attleboro, Mass

Cal	Weightman & Associates	4029 W Burbank Blvd. Burbank	VI9-2435
Colo	Peterson Co.	4949 Colorado Blvd. Denver	DE3-5434
DC	Industrial Equipment, Inc.	1624 Eye St. NW, Washington 6	ST3-3453
Fla	Vanguard Associates	1312 Palm Ave. Melbourne	PA3-3074
Minn	Murphy Associates, Inc.	1940 Hennepin Ave. Minneapolis 5	FR4-2350
NJ	Andrews & Andrews	43 Kent Rd. Tenafly	LO9-8800
NY	Reed-Tollefson Corp.	2815 Monroe Ave. Rochester 18	HI5-0450
Ohio	J. W. Moots & Associates	39 N Torrence St. Dayton 3	CL3-9174
Pa	W. R. Jones	Box 383, Doylestown	FI8-3634
Tex	R. E. McClendon Co.	137 Walnut Hill Vlge. Dallas 20	FL2-4054
Wash	N. R. Schultz Co.	4227 Airport Way, Seattle 8	MA4-8650
For	Lendz & Co. Inc.	535 5th Ave. New York 17	VA6-5671

INSTRUMENT & DEVELOPMENT PRODS. CO., INC. 355 W 109th Pl. Chicago, Ill WA8-1221

Ill	C. Walsh Assoc., Inc.	Box 244, Deerfield	ID3-2800
Tenn	C Walsh Assoc., Inc.	Box 541, Oak Ridge	50837

INSTRUMENTATION ASSOCIATES 17 W 60 St. New York 23, NY CI5-5590

INSTRUMENTS, INC. ..... Box 556, Tulsa, Okla LU2-4151

Colo	Instruments, Inc.	110-16th St. Denver	TA5-6091
Ill	W. G. Deutsch	6272 W North Ave. Chicago	BE7-1584
NY	M. S. Jacobs & Associates, Inc.	1807 Elmwood, Buffalo	DE3229
NY	Instruments, Inc.	Box 352, Fair Lawn, NJ	SW7-0014
Ohio	C K M Industrial Sales	3038 Madison Rd. Cincinnati	ME1-1193
Pa	Autotrols, Inc.	Box 11038, Pittsburgh	WE1-4431
Tex	Instruments, Inc.	Central Bldg. Midland	MU2-9952
Can	Instruments, Inc.	Box 642, Calgary, Alb.	AM3-2395
Can	Assoc. Instr. & Controls, Ltd.	2655 Bates Rd. Montreal, Que.	RE5-1187

INSTRUMENTS FOR INDUSTRY, INC. 99 New South Rd. Hicksville, NY OY1-7100

Cal	Moxon Electronics Corp.	489 S Robertson Blvd. Beverly Hills	BR2-8011
Md	Taylor Engineering, Inc.	2100 St. Paul St. Baltimore	BE5-9126
Mass	R. F. MacDowell Co., Inc.	Box 102, Melrose 76	NO5-8893
Mich	B. Z. Rubin Co.	12838 Fendell Ave. Detroit 27	UN3-4958
Minn	P. Lind Electronics Co.	9781 Western Ave. Circle Pines	SU4-3827
Mo	E. H. Murty	3505 Ridgedale Ave. St. Louis 21	EV1-3050
NY	Electronics Mfrs. Export Co.	127 Grace St. Plainview	WE1-3700
NY	Cain & Co.	69 Greenwich St. Hempstead	IV3-4060
Ohio	Dayton Associates	Talbott Tower, Dayton 2	BA3-9821
Tex	Packard Associates	404 Love Field Air Term. Dallas 35	FL7-5713
Wash	Rush Drake Associates	1817 Norman St. Seattle 44	EA3-8545
Can	Electrodesign	9124 St. Lawrence Blvd. Montreal	DU9-5914

INTEGRA, LEEDS & NORTHRUP LTD. Broad St. Birmingham 15, Eng MI1453/4

INTERATOM, INTERNATL. ATOMREAKTORBAU GmbH Bensberg/Koeln, Postfach, Ger BE27 91

INTERCONTINENTAL DYNAMICS CORP. 170 Coolidge Ave. Englewood, NJ LO7-3600

INTERNATIONAL ENGINEERING CONCESSIONAIRES LTD. 39 Parliament St. Westminster London, SW1, Eng

INTERNATIONAL EQUIPMENT CO. ..... 1286 Soldiers Field Rd. Boston 35, Mass .. ST2-7900

INTERNATIONAL GAS DETECTORS LTD. 8A Gr. Wilson St. Leeds 11 Yorks, Eng 25268

INTERNATIONAL INSTRUMENTS, INC. Box 2954, New Haven 15, Conn

Cal	Kittleson Co.	416 N La Brea Ave. Los Angeles	WE3-7371
Colo	Scientific Instrument Co.	1460 Penna St. Denver	AL5-2777
DC	F. E. Gignoux, Jr.	2515 Mass Ave. NW, Washington	HU3-6618
Fla	W. R. Lehmann Co.	108 Hillcrest Ave. Orlando	GA2-9548
Ill	Gassner & Clark Co.	6644 N Western Ave. Chicago 45	RO4-6121
Kan	M. E. Bettis Co.	508 N Belmont, Wichita	MU6-7441
Mass	Richter Assoc.	645 E Washington St. Hanson	TA6-2821
Mich	Henschen, Jensen & Co.	2842 W Grand Blvd. Detroit 2	TR1-0308
Minn	M. H. Kirkeby	204 Sunnyridge Ave. Minneapolis 22	FR7-3239
NC	MacGuire Instrument Co.	3214 Highview Rd. Charlotte 9	EM6-3454
Ohio	R. G. Sindell & Co.	1229 W Lake Ave. Cleveland 7	AC1-1313
Pa	C. R. Hile Co.	Hillview Rd. Paoli	NI4-5500
Tex	J. B. Guenther	4533 N Central Exp. Dallas 5	LA8-6286

INTERNATIONAL MINERALS & CHEMICAL CORP. Old Orchard Rd. Skokie, Ill

INTERNATIONAL NICKEL CO. INC. 67 Wall St. New York 5, NY

INTERNATIONAL PUMP & MACHINE WORKS 81 Dorse Ave. Livingston, NJ WY2-5900

Cal	Brenner-Fiedler	7563 Melrose Ave. Los Angeles 46	
DC	H. Roher	Barr Bldg. Washington 6	

INTERNATIONAL RECTIFIER CORP. 233 Kansas St. El Segundo, Cal OR6-6281

Ill	Intl. Rectifier Corp.	6453 Lincoln Ave. Chicago 45	JU3-3065
Md	Intl. Rectifier Corp.	8506 Cameron St. Silver Spring	JU9-3305
Mass	Intl. Rectifier Corp.	17 Dunster St. Cambridge 38	UN4-6520
Mich	Intl. Rectifier Corp.	1799 Coolidge Hwy. Berkley	LI8-1144
NY	Intl. Rectifier Corp.	2366 James St. Syracuse	HE7-8495
NY	Intl. Rectifier Corp.	1580 Lemoine Ave. Ft. Lee, NJ	CH4-0748
Pa	Intl. Rectifier Corp.	Suburban Square Bldg. Ardmore	GR3-0212

INTERNATIONAL RESEARCH ASSOCIATES ..... 5438 W North Ave. Chicago 39, Ill NA2-2402

INTERNATIONAL RESISTANCE CO. 401 N Broad St. Philadelphia 8, Pa WA2-2166

Cal	International Resistance Co.	1136 N La Brea Blvd. Hollywood	
Cal	Weston Sales & Engineering	7407 Melrose Ave. Los Angeles 46	WE3-7276
Colo	Electronic Component Sales	2149 S Clermont, Denver 22	PE3-7172
Ga	E. G. Holmes & Assoc.	4969 Roswell Rd. NE, Atlanta 5	BL5-6660
Ill	International Resistance Co.	5243 W Diversey Ave. Chcago 39	
Mass	G. J. Neuman & Co.	104 Pilgrim Rd. Wellesley	CE5-5353
Mich	Koehler-Pasmore Co.	11833 Hamilton Ave. Detroit 3	TO8-3322
NY	International Resistance Co.	165 Broadway, New York 6	
NY	International Resistance Co.	314 State Tower Bldg. Syracuse 2	
Ohio	Baehr-Greenleaf & Assoc.	14700 Detroit Ave. Cleveland 7	AC1-9030

Tex	Pan-Tech Eng. & Supply Co.	3302 Mercer St. Houston 27	JA6-4624
Wash	Arva	1320 Prospect St. Seattle 9	MU2-7337

INTERNATIONAL SHIELDING INDUSTRIES Foot of West St. Wilmington, Del

INTERNUCLEAR CO. 7 N Brentwood Blvd. Clayton 5, Mo PA7-2668

Cal	Petrolite Corp.	1390 E Burnett St. Long Beach 7	GA7-7454
Ohio	Petrolite Corp.	Box 176, Sta. E, Toledo 9	CH2-2765
Okla	Petrolite Corp.	3555 S Toledo Pl. Tulsa	RI2-2151
Tex	Petrolite Corp.	3202 S Wayside Dr. Houston 1	WA6-7431
Ital	F. E. Love	36, Via Vincenzo Tiberio, Rome	30-07-53
Jap	Asano Bussan Co.	6, Marunouchi, Tokyo	(28) 4521
Venz	L. Mont Land	Hotel Avila, Caracas	55-61-11

INTERSTATE ELECTRONICS CORP. 707 E Vermont Ave. Anaheim, Cal PR2-2222

INTERSTATE INDUSTRIAL UNIFORM RENTAL SERVICE 295 Parker St. Indian Orchard, Mass ST3-1243

INTERTECHNIQUE S. A. 81 rue Escudier Boulogne-Billancourt, Seine, France MOB3-20

Aus	Jacoby, Mitchell & Cy Pty. Ltd.	469-475 Kent St. Sydney, N.S.W.	8411
Aust	Intropa A. G.	Rotenturmstr 25, Vienne, 1	630711
Belg	Nucleobel S. A.	28 rue du Fosse-aux-Loups - Brussels	(16-02)187216
Eng	Miles Hivolt Limited	Old Shoreham Rd.Shoreham-by-Sea, Sussex	4301
Ger	Reichert-Elektronik	Postfach 743, Trier	8373
Holl	Compagnie Generale D'Electricite Koninginnegracht 64, La Haye		112010
Isrl	Landseas-Eastern Co., Ltd.	22, Maze St. Tel-Aviv	66890
Ital	Ether Langham Thompson Ital S.P.A.	Via Bisleri 19, Milan	4070351
Spn	Pacisa	Gral P. Rivera 35, Madrid 5	391005
Swed	Bergman & Beving AB	Karlavagen 78, Stockholm 10	679260
Swit	Nucletron AG	Spitalgasse 30, Berne	37451

INTRUSION-PREPAKT 568 Union Commerce Bldg. Cleveland 14, Ohio MA3-0080

Ga	Intrusion-Prepakt, Inc.	1703 Atlanta Fed. Savings Bldg. Atlanta	JA5-2481
Ill	Intrusion-Prepakt, Inc.	3700 W 38th St. Chicago	VI7-2111
Mass	Intrusion-Prepakt, Inc.	459 Statler Office Bldg. Boston	LI3-1208
Minn	Intrusion-Prepakt, Inc.	E 39th St. Minneapolis	PA1-3161
Mo	Intrusion-Prepakt, Inc.	8826 Prospect Ave. Kansas City	HI4-7777
Mo	Intrusion-Prepakt, Inc.	6633 Wise Ave. St. Louis 17	MI7-1111
Pa	Intrusion-Prepakt, Inc.	1405 Western Saving Fund Bldg. Phila	KI5-2935
Wash	Intrusion-Prepakt, Inc.	Box 3119, Intl. Sta. Seattle	BA6-2820
Wis	Intrusion-Prepakt, Inc.	Box 266, Wisconsin Dells	3-2822
Can	Intrusion-Prepakt, Inc.	5300 Yonge St. Willowdale, Ont.	BA2-1137

IONICS INC. 152 6th St. Cambridge 42, Mass UN4-3500

IPSEN INDUSTRIES, INC. Box 500, Rockford, Ill

Cal	Ipsen Industries, Inc.	14865 Firestone Blvd. Norwalk	LA2-2831
Fla	D. C. Jackson Co.	1403 SE 8th Ct. Deerfield Beach	DE4389
Ill	Ipsenlab of Rockford, Inc.	2125 Kishwaukee St. Rockford	WO6-5788
Mich	Ipsen Industries, Inc.	18130 Fenkell Ave. Detroit	BR2-0277
NJ	Ipsen Industries, Inc.	666 Clinton Ave. Newark	ES1-0420
Ohio	Ipsen Industries, Inc.	14625 Detroit Ave. Lakewood	AC1-9500
Pa	Voss Machinery Co.	515 S Main St. Pittsburgh 20	WA2-1900
Tex	M. K. Griggs Co.	2801 San Jacinto Ave. Houston	CA8-8645

IRON FIREMAN MFG. CO., ELECTRONICS DIV. 2838 SE 9th Ave. Portland 2, Ore BE4-6551

Ariz	FRYCO	355 N Scottsdale Rd. Scottsdale	WH5-3281
Cal	C. W. Mauldin Co.	441 W California Ave. Palo Alto	DA6-5291
Cal	A-F Sales Engineering	385 E Green St. Pasadena	MU1-5631
Conn	Geist-Hotz Inc.	200 5th St. Stamford	DA4-7300
Ill	T. B. Hunter	4441 W Irving Park Rd. Chicago	SP7-2500
Ind	F. C. Valentine, Inc.	511-512 Ft. Wayne Bank Bldg. Ft. Wayne	AN9122
Minn	Northport Engineering Inc.	1729 Selby Ave. St. Paul	MI6-2621
Mo	W. E. Fry Co.	406 W 34th St. Kansas City	EI1-5238
NJ	K. E. Hughes Co., Inc.	4808 Bergenline Ave. Union City	
Tex	H. D. Edmiston	2717 Swiss Ave. Dallas 4	TA7-2863
Utah	Rowley-Bouvette Inc.	955 Folsom, Salt Lake City	DA2-2041
Wash	Seatronics Inc.	1817 Norman St. Seattle	EA5-8545

IRWIN & PARTNERS LTD., E.G. 2 Princes Row, Buckingham Palace Rd. London, SW1, Eng 9393 P.B.X.

ISOLANTITE MFG. CORP. 337 Vanoss Ave. Stirling, NJ MI7-0385

Mass	Melville Grant Associates	Box 175, Needham 92	HI4-1432

ISOMET CORP. 433 Commercial Ave. Palisades Park, NJ WI4-4100

ISOSERVE INC. 131 Portland St. Cambridge 39, Mass UN4-4423

ISOTOPE ACCESSORIES CO. 5312 Westminster Ave. Philadelphia 31, Pa SH8-1330

Ill	Nuclear-Chicago Corp.	333 E Howard St. Des Plaines	
Mass	Tracerlab Inc.	1601 Trapelo Rd. Waltham	
Mass	Baird-Atomic Inc.	33 University Rd. Cambridge	
NY	Picker X-Ray Corp.	25 S Broadway, White Plains	

ISOTOPE DEVELOPMENTS LTD. Bath Rd. Reading, Berks, Eng NE1197

Aus	Austronic Eng. Labs. Pty. Ltd.	420 William St. Melbourne, C.1.	
Belg	Regulation-Mesure	22 Rue Saint-Hubert, Brussels 15	
Can	Conway Electronic Enterprises	1514 Eglington Ave. W. Toronto 10, Ont.	
Ger	Sunvic Regler GmbH.	Hackhauser Str. 68A, Chligs/Solingen	
Holl	Stokvis & Zonen, N.V.	Postbus 426, Rotterdam	
Isrl	M. Kochn	Box 1147, Jerusalem	
Ital	Sirples	Corso Venezia 37, Milan	
Ind	Joits Engineering Co., Ltd.	Sir Phiroushah Mehta Rd. Bombay 1	
Jap	Toyo Trading Co., Ltd.	2, 1-chome, Hongeku-cho, Nihon-bashi, Chuo-Ko, Tokyo	
N Z	Neill Cropper & Co., Ltd.	Box 74, Auckland	
Pak	Assoc. Instrument Mfg. (Pakistan) Ltd.	7 W Wharf Rd. Karachi	

ISOTOPES INC. 123 Woodland Ave. Westwood, NJ HO4-7070

Mass	R. P. Mahon Co.	South Lincoln	CL9-9300

ISOTOPES SPECIALTIES CO. DIV. of NUCLEAR CORP. of AMERICA 170 W Providencia, Burbank, Cal VI9-2273

Cal	C. W. Reed Co.	5959 S Hoover St. Los Angeles 44	PL3-2221
Ill	R. E. Steiner	6416 N Hamilton, Chicago 45	CE6-4272
Mo	Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	TA2-1961
NJ	W. B. Johnson & Associates	107-109 Cornelia St. Boonton	DE4-9222
Ohio	The Dann Co.	4205 Chester Ave. Cleveland 3	EX1-7240
Pa	Isotopes Specialties Co.	Pittsburgh	TU1-4666
Tex	Southwestern Eng. & Eqpt.	4045 Lemmon Ave. Dallas 19	LA5-7433
Utah	Applied Engineering Prods. Co.	406 Felt Bldg. Salt Lake City 11	EM4-4943

ITEK CORP. 128 Spring St. Lexington, Mass

J-B-T INSTRUMENTS, INC. 133 Hamilton St. New Haven 8, Conn ST7-5825

Cal	H. M. Saul & Associates	5015 San Vicente Blvd. Los Angeles	WE8-3591
DC	Massey Associates	6607 Riverdale Rd. Riverdale, Md.	AP7-1023
Ga	J. Millar Associates	1096 Peachtree St. NE, Atlanta 9	TR6-0210
Ill	Instrument Sales Co.	3947 W Lawrence Ave. Chicago 25	CO7-4646
Mass	Adams-McGregor Associates	Lincoln, RI	PA6-1300
Mich	Henschen-Jensen & Co.	2842 W Grand Blvd. Detroit	TR1-0398
Minn	The Heimann Co.	1711 Hawthorne Ave. Minneapolis	FE2-5457
Mo	H. A. Roes & Co.	2601 Cherry St. Kansas City 8	BA1-0866
NY	D. F. Tobias & Co.	30 Church St. New York 7	CO7-4349
Ohio	C. H. Dolfuss, Jr. & Co.	21st & Payne, Cleveland	PR1-1279
Pa	Massey Associates	529 Brookhurst Ave. Narberth	MO4-4200
Tex	Lund & Co.	2215 N Olive St. Dallas 14	RI5-8839

JACKES-EVANS MFG. CO. 4427 Geraldine, St. Louis 15, Mo

Cal	Milmac	280-7th St. San Francisco 3	UN3-2266
Colo	Betteo	950 Cherokee St. Denver	KE4-6915
Conn	Donovan Associates	993 Farmington Ave. W Hartford 7	AD3-5090
Fla	L. K. Wright, Jr.	Box 6428, Orlando	GA5-4871
Ga	W. B. Knox Associates	Box 508, Avondale Estates	BU9-9507
Ill	I. H. Cohler Co.	510 N Dearborn St. Chicago 10	DE7-0713
La	R. G. Trafton	2501 Elizabeth St. Metairie	VE5-1695
NJ	Hawk Engineering Co.	103 E Front St. Red Bank	SH1-1114
Ohio	R. F. Kimerer	532 Kenwood Ave. Dayton 6	CR7-4539
Ore	Pacific Electric Sales Co.	140 SE 28th Ave. Portland 14	BE5-4137
Pa	J. F. Huff	Box 402, Narberth	MO4-0917

JACKSON ELECTRICAL INSTRUMENT CO. 124 McDonough St. Dayton 2, Ohio

Cal	F. W. Mouthrop Co.	575 10th St. San Francisco	MA1-0722
Colo	McLoud & Raymond Co.	5403 E Evans Ave. Denver	SK6-1589
Ill	J. West	6747 N Octavia Ave. Chicago 31	RO3-3500
Ind	Southern Sales Co.	Box 105, Angola	777
Mass	W. B. Pray Sales Co.	44 Washington St. Wellesley Hills 81	CE5-3199
Mich	J. Rathsburg Co.	3539 Townsend Ave. Detroit 14	WA1-3932
Mo	P. G. Scholz Co.	Box 9021, Hickman Mills	SC1-8757
NY	H. A. Steinberg Co.	880 Bergen Ave. Jersey City NJ	SW5-2255
Ohio	S. Levin & Associates	6252 Mayfield Rd. Cleveland 24	HI2-8340
Pa	J. H. Podolny Co.	5912 Penn Ave. Pittsburgh 6	HI1-0800
Tex	J. Yount Co.	1431 Pleasant Dr. Dallas 17	EX1-1631
Wash	Marsh Agencies	2801 1st Ave. Seattle	MA2-8721

JACKSON & MORELAND, INC. 600 Park Square Bldg. Boston 16, Mass HU2-8100

DC	Jackson & Moreland, Inc.	1825 Conn. Ave. NW, Washington	DU7-2555
DC	Jackson & Moreland Intl., Inc.	1825 Conn. Ave. NW, Washington	DU7-2555
NY	Jackson & Moreland, Inc.	375 Park Ave. New York 22	PL8-2644

JAMES, POND & CLARK, INC. 2181 E Foothill Blvd. Pasadena, Cal SY3-9195

Ala	Emory Design & Equipment Co.	Box 9013, Birmingham 13	TR1-1369
Cal	Power Transmission Eng. Corp.	86 Keyes St. San Jose	AX6-2163
Colo	Instrument Service Co.	Box 5048, Denver 17	AL5-2167
DC	J. C. Soraghan & Associates	1413 K St. NW, Washington 5	ST3-3612
Ill	Norman Engineering Co.	2115 W Marquette Rd. Chicago 36	HE4-2300
Kan	D & O Engineering Co., Inc.	Box 3107, Wichita	AM2-6214
Mass	Lindco, Inc.	765 W Boylston St. Worcester 6	PL6-4637
Mich	J. M. Reed Co.	2832 E Grand Blvd. Detroit 11	TR3-1187
NY	J. V. Tripoli & Co.	1622 Fillmore Ave. Buffalo 11	BA1777
NY	Hummel Technical Products	90 West St. New York 6	BA7-8630
Ohio	Scott Equipment Co.	272 Leo St. Dayton 4	BA3-8141
Wash	Avionics Liaison, Inc.	6607 Airport Way, Seattle 8	FA3-1600

JAMESBURY CORP. 45 New St. Worcester 5, Mass

JARRELL-ASH CO. 26 Farwell St. Newtonville 60, Mass

JENAER GLASWERK SCHOTT & GEN. 10 Hattenbergstr. Mainz-Rhein, W Ger MA8161

NY	Fish-Schurman Corp.	70 Portman Rd. New-Rochelle	

JENNINGS RADIO MFG. CORP. 970 McLaughlin Ave. San Jose 8, Cal

JERGUSON GAGE & VALVE CO. Adams St, Burlington, Mass

Cal	Bushnell Controls & Eqpt. Co. Inc.	5137 W Jefferson Blvd. Los Angeles	WE7-1834
Cal	Imco Equipment Co.	1980 Mountain Blvd. Oakland 11	OL5-5973

Colo	Davis & Davis	504 Mining Exchange Bldg. Denver 2	AL5-3418
Ga	W. K. Stallings Co.	3120 Maple Dr. NE, Atlanta	CE7-0600
Ill	Meters & Controls, Inc.	444 N LaSalle St. Chicago 10	WH4-1448
Mass	G. K. Kerisher Co.	108 E Dedham St. Boston 18	LI2-1050
Mo	O'Brien Equipment Co.	2832 Olive St. St. Louis 3	JE3-2091
NY	J. A. Moore Co.	342 Madison Ave. New York 17	MU2-2420
Ohio	H. R. Bowers Co.	1585 W 117th St. Cleveland 7	AC1-8442
Okla	Aljo Sales Co.	IBM Bldg. Tulsa	LU5-5143
Pa	W. J. Gallagher Co.	3701 N Broad St. Philadelphia 40	BA9-9940
Tex	D. Orifice Fitting Co.	9720 Katy Rd. Houston 24	HO5-3451

JERPBAK-BAYLESS CO. ..... 34150 Solon Rd. Solon, Ohio CH8-5387

Ariz	Kiva Sales Co.	2701 E Indian School Rd. Phoenix	AM6-2413
Cal	L. O. Jerpbak	15147 Chelsea Dr. San Jose 24	ES7-4042
Cal	C. E. Johnson	1149 Addot Ave. San Gabriel	AT4-0422
Ill	E. Johnson & Son	9500 W Ogden Ave. Brookfield	HU5-1686
Ind	C. L. Martin Co., Inc.	286 W 40th St. Indianapolis 8	HU6398
Mich	E. D. Wolf & Associates	411 East Dr. Marshall	
Mich	C. M. Bohlen Co.	Box 175, Flint 1	CE5-4805
Minn	Metal-Tools & Equip. Co.	1608 N Washington Ave. Minneapolis 11	JA2-3339
NY	Tri-City Tool & Machy. Co. Inc.	3491 Delaware Ave. Kenmore 17	RI7252
NY	A. G. Landres	17 W 60th St. New York 23	CO5-3493
Ohio	J. B. Kuntz Co.	1226 McCook Ave. Dayton 4	BA4-0359
Wash	D. H. Lundin Co.	4803 9th, NW, Seattle 7	SU4-8030

JOB-O-STEINBECK ..... Reinbek, Bz. Hmb. Ger HA726477

Jap	Nippon Caishikaisha Ltd.	Mizuho Nagoya	MA881581

JOHNS-MANVILLE ..... 22 E 40th St. New York 16, NY LE3-7600

Cal	Johns-Manville	611 S Catalina St. Los Angeles 5	DU5-0595
Cal	Johns-Manville	116 New Montgomery St. San Francisco 5	DO2-4353
Ga	Johns-Manville	101 Marietta St. Atlanta 3	JA5-2021
Ill	Johns-Manville	Merchandise Mart Plaza, Chicago 54	DE7-1144
Mass	Johns-Manville	100 Newbury St. Boston	CO7-6500
Mo	Johns-Manville	7912 Bonhomme Ave. Clayton, St. Louis 5	PA1-4000
Ohio	Johns-Manville	Central Pkwy. at Walnut St. Cincinnati 2	PA1-5840
Ohio	Johns-Manville	3101 Euclid Bldg. Cleveland 15	
Pa	Johns-Manville	Chestnut at Fourth, Philadelphia 6	WA2-5000
Pa	Johns-Manville	2228 Koppers Bldg. Pittsburgh 19	AT1-4040
Tex	Johns-Manville	3115 Blodgett St. Houston 4	JA6-1751

JOHNSON & ASSOC. INC. WILLIAM B. Box 415, Mountain Lakes, NJ DE4-9222

JOHNSON CO., E.F. ..... Waseca, Minn 990

JOHNSON CORP. ..... 809 Wood St. Three Rivers, Mich

Ala	Southeastern Prods. Corp.	1401-03 Lomb Ave. Birmingham 1	
Alas	A. Forsyth Co.	1417 F St. Anchorage	
Colo	Thermal Ind. Engineering Co.	Box 755, Denver 1	
Ga	Abbey Steam Specialty Co.	884 Murphy St. SW, Atlanta 10	
Ill	Johnson-Prowse Co.	6261 W Grand Ave. Chicago 39	
Md	W. A. Milby Co., Inc.	2701 Cresmont Ave. Baltimore 11	
Mass	Power Specialties Co., Inc.	171 Broadway Ave. Arlington 74	
NY	Award Equipment Co., Inc.	906 Niagara St. Buffalo 13	
NC	Mechanical Equipment Co.	215 Providence Rd. Charlotte	
Ohio	Robertson-Wherritt Co.	426 Transportation Bldg. Cincinnati 2	
Ohio	Tomlinson Steam Specialty Co.	1599 St. Clair Ave. Cleveland 14	
Tex	G. B. Allan & Co.	801 S Akard St. Dallas 2	

JOHNSON & PHILLIPS, LTD. .. Victoria Way, London SE7, Eng GR3244

NY	American British Elec. Corp.	57 Park Ave. New York 16	
Bah	C. E. M. Jones	Box 842, Nassau	
Barb	Hull & Sons	Box 192, Bridgetown	
Can	Wilkinson & McLean, Ltd.	1215-9th Ave. SW, Calgary, Alb	
Jam	Caribbean Ind. Equipment	Royal Mail Bldg. Kingston	
Trin	L. F. Huggins & Co. Ltd.	Box 179, S Quay, Port of Spain	
Vene	Comeca S. A.	Calle Chopin, Caracas	

JOHNSON SERVICE CO. ..... Milwaukee 1, Wis BR6-9200

Cal	Johnson Service Co.	615 N Alvarado St. Los Angeles 26	DU7-2291
Cal	Johnson Service Co.	1666 Mission St. San Francisco 3	UN1-6353
Colo	Johnson Service Co.	1230 California St. Denver 4	CH4-2491
DC	Johnson Service Co.	2117 M St. NW, Washington 7	FE7-1000
Ga	Johnson Service Co.	489 Bishop St. NW, Atlanta 13	TR4-0814
Ill	Johnson Service Co.	1355 Washington Blvd. Chicago 7	HA1-2135
Mass	Johnson Service Co.	64 Moulton St. Cambridge 38	KI7-8930
Mich	Johnson Service Co.	840 Hilton Rd. Detroit 20	LI6-0032
Mo	Johnson Service Co.	1031 Wyandotte St. Kansas City 5	VI2-5503
NY	Johnson Service Co.	11-26 47th Ave. Long Island City 1	EM1-9700
Pa	Johnson Service Co.	2853 N 12th St. Philadelphia 33	BA9-0520
Can	Johnson Controls Ltd.	120 Bermondsey Rd. Toronto 16, Ont.	PL7-2821

JOHNSON WILLIAMS, INC. ..... 2625 Park Blvd. Palo Alto 35, Cal DA3-4131

JOHNSTON LABS. INC., WILLIAM H. 3617 Woodland Ave. Baltimore 15, Md. . MO4-8400

JOHNSTON PUMP CO. DIV. YOUNGSTOWN SHEET & TUBE CO.
3272 E Foothill Blvd, Pasadena, Cal MU1-7601

Ga	Johnston Pump Co.	57 Forsyth St. NW, Atlanta 1	JA3-7395
Idah	Johnston Pump Co.	1593 N Yellowstone, Idaho Falls	JA2-8144
Neb	Johnston Pump Co.	415 E "G" St. Hastings	3-1545
NM	Johnston Pump Co.	2007 SE Main, Roswell	MA2-5942
NY	Johnston Pump Co.	30 Rockefeller Plaza, New York City	PL7-0431
NC	Johnston Pump Co.	311 Lawyers Bldg. Raleigh	TE2-8285
Tex	Johnston Pump Co.	Balmorhea Hwy. Pecos	HI5-3022

JONES & LAUGHLIN STEEL CORP. 3 Gateway Center, Pittsburgh 30, Pa ... CO1-7400

Cal	Jones & Laughlin Steel Corp.	612 S Flower St. Los Angeles 17	MA4-1976
Cal	Jones & Laughlin Steel Corp.	Russ Bldg. San Francisco 4	EX2-0266
Ga	Jones & Laughlin Steel Corp.	Fulton Federal Bldg. Atlanta 3	JA2-6805
Ill	Jones & Laughlin Steel Corp.	Field Bldg. Chicago 3	FR2-1764
Md	Jones & Laughlin Steel Corp.	Mathieson Bldg. Baltimore 2	MU5-6880
Mass	Jones & Laughlin Steel Corp.	10 High St. Boston 10	HU2-5151
Mich	Jones & Laughlin Steel Corp.	Fisher Bldg. Detroit 2	TR5-1600
NY	Jones & Laughlin Steel Corp.	270 Park Ave. New York 17	YU6-6600
Ohio	Jones & Laughlin Steel Corp.	Union Commerce Bldg. Cleveland 14	MA1-7866
Ohio	Jones & Laughlin Steel Corp.	Far Hills Bldg. Dayton 19	AX8-7251
Pa	Jones & Laughlin Steel Corp.	Suburban Sta. Bldg. Philadelphia 3	LO3-0750

JORDAN CONTROLS INC. ..... 3235 W Hampton Ave. Milwaukee 9, Wis UP1-9240

Cal	W. H. Del Mar Co.	3925 W Slauson Ave. Los Angeles 43	AX5-6421
Cal	McCarthy-Hood & Associates	1485 Bayshore Blvd. San Francisco 24	JU6-1860
Colo	J. H. Dorough Co. Inc.	1357 Harlan St. Denver 4	BE7-2925
Ill	Clarkson Engineering Co.	105 N Laramie Ave. Chicago 44	AU7-4272
Kan	H. F. Ziegler Co.	4306 Cambridge St. Kansas City 3	
Mich	J. Boyko Engrg. Co.	13050 Houston Ave. Detroit 5	DR1-2840
Mo	H. F. Ziegler Co.	4306 Cambridge St. Kansas City 3, Kan	
NY	Jackson Engineering Co.	128 Court St. White Plains	WH8-1033
NY	B. Fleckenstein	210 Sunnybrook Dr. Syracuse 9	HU8-7883
Ohio	S. J. Vereb	4619 E 93rd St. Garfield Hts. 25	VU3-6999
Ohio	Willey-Wray Electric Co.	1523 Central Pkwy. Cincinnati 14	PA1-4720
Pa	Jackson Engineering Co.	211 Ford Rd. Bala-Cynwyd	MO4-9011

JORDAN ELECTRONICS ..... Alhambra, Cal CU3-6425

JOY MFG. CO. INDUSTRIAL DIV. H. W. Oliver Bldg. Pittsburgh 22, Pa GR1-2140

Cal	Joy Mfg. Co.	5426 E Washington Blvd. Los Angeles 22	RA3-6305
Ill	Joy Mfg. Co.	560 W Washington Blvd. Chicago 6	DE2-4670
Mass	Joy Mfg. Co.	2nd Ave. Burlington	BR2-9500
Mich	Joy Mfg. Co.	17615 W McNichols Rd. Detroit 35	KE7-2660
NY	Joy Mfg. Co.	100 Church St. New York 7	CO7-6545
Ohio	Joy Mfg. Co.	16141 Puritas Ave. Cleveland 35	CL1-9444
Pa	Joy Mfg. Co.	1420 Walnut St. Philadelphia 2	PE5-1414
Pa	Joy Mfg. Co.	3021 Banksville Rd. Pittsburgh 16	LO3-4000
Tex	Joy Mfg. Co.	Box 13187, Dallas 20	FL7-3949
Tex	Joy Mfg Co.	1022 Wyoming St. El Paso	KE3-2121
Utah	Joy Mfg. Co.	998 S 6th W, Salt Lake City 10	DA2-0481

K-PLASTIX ..... 55 Elmira St. San Francisco 24, Cal DE3-9175

KAHL SCIENTIFIC INSTRUMENT CORP. Box 1166, El Cajon, Cal HI4-5994

NY	Kahl Sci. Inst. Corp.	134 W 26th St. New York City 1	WA4-5630

KAHLENBERG BROS. CO. .... 12th & Monroe Sts. Two Rivers, Wis

KAHN & CO. INC. ..... Box 516, Hartford 1, Conn JA9-8643

KAISER ALUMINUM & CHEMICAL SLS. INC. 1924 Broadway, Oakland, Cal CR1-2211

KAISER ENGINEERS ..... 300 Lakeside Dr. Oakland 12, Cal CR1-2211

DC	Kaiser Engineers	1625 Eye St. NW, Washington	ST3-1555
Ill	Kaiser Engineers	228 N LaSalle St. Chicago 1	RA6-5027
Pa	Kaiser Engineers	330 Grant St. Pittsburgh 19	AT1-7992
Can	H. J. Kaiser Co. (Canada), Ltd.	4920 Western Ave. Montreal 6	HU9-7531

KAISER FLEETWINGS, INC. ... Bristol, Pa ST8-8431

KAHAN NUCLEAR ..... Box 3217, N End Sta. Colorado Springs, Colo ME4-2826

Cal	G. W. Fowler Co.	499 Hamilton Ave. Palo Alto	DA1-1810
Md	Taylor Engineering, Inc.	2100 St. Paul St. Baltimore 18	BE5-9126
Mich	B. Z. Rubin Co.	12838 Fenkell, Detroit 27	UN4-4958
Mo	Atomasters-Buntaine Corp.	111 W Jewell Ave. St. Louis 22	TA2-1961
NY	Scientific Sys. Sales Corp.	Box 3, Bayside 61	BA5-0929
Tex	Texas Nuclear Corp.	Box 9267, Allandale Sta. Austin	GL3-7288

KATES CO., W.A. ..... 430 Waukegan Rd. Deerfield, Ill WI5-0950

KAWECKI CHEMICAL CO., INC. 220 E 42nd St. New York, NY MU2-7143

KAY ELECTRIC CO. ..... Maple Ave. Pine Brook, NJ CA6-4000

Cal	Kay Electric Co.	12871 Lucille St. Garden Grove	JE7-1373
Ill	L. F. Green & Associates	5218 W Diversey Ave. Chicago 39	PA5-6824
Mass	J. Gilmore	Parker St. Chelsea	TU4-0993
Mich	S. Sterling Co.	15310 W McNichols Rd. Detroit	BR3-2900
Wash	ARVA	1320 Prospect St. Seattle 9	MA2-0177
Can	Mel Sales Ltd.	1969 Avenue Rd. Toronto 12, Ont.	HU1-0231

KAYDON ENGINEERING CORP., THE Muskegon, Mich PL5-3741

KAYSER ELLISON & CO. LTD. CARLISLE STEEL WKS. Sheffield 4, Eng SH22124

Mass	Wetherell Bros. Co.	251 Albany St. Cambridge 39	
Can	Norton Steel Co. Limited	190 Murray St. Montreal 3, Que	

KEARFOTT DIV. GEN. PRECISION INC. 1150 McBride Ave. Little Falls, NJ CL6-4000

Ariz	Kearfott Div., Gen. Precision, Inc.	30 Pima Plaza, Scottsdale	
Cal	Kearfott Div., Gen. Precision, Inc.	253 N Vinedo Ave, Pasadena	
Cal	Kearfott Div., Gen. Precision, Inc.	14844 Oxnard St. Van Nuys	
Cal	Kearfott Div., Gen. Precision, Inc.	991 Commercial St. Palo Alto	
DC	Kearfott Div., Gen. Precision, Inc.	777 14th St. NW, Washington 5	
Fla	Kearfott Div., Gen. Precision, Inc.	2754 S Fletcher Ave. Fernandina Beach	
Ill	Kearfott Div., Gen. Precision, Inc.	23 W Calendar Ave. La Grange	

Mass	Kearfott Div., Gen. Precision, Inc.	336 Main St. Cambridge	
Ohio	Kearfott Div., Gen. Precision, Inc.	333 W 1st St. Dayton 2	
Tex	Kearfott Div., Gen. Precision, Inc.	6211 Denton Dr. Dallas 35	
Wash	Kearfott Div., Gen. Precision, Inc.	3466 Marginal Way, Seattle	
	KEARNEY & TRECKER CORP.	**6800 W National Ave. Milwaukee 14, Wis**	**GR6-8300**
Mich	Kearney & Trecker Corp.	10600 Puritan Ave. Detroit 38	UN4-5100
NJ	Kearney & Trecker Corp.	456 Sylvan Ave. Englewood Cliffs	LO8-7882
Ohio	Kearney & Trecker Corp.	Euclid & E 17th St. Cleveland 15	PR1-3600
Pa	Kearney & Trecker Corp.	Suburban Sq. Bldg. Ardmore	MI9-3150
Pa	Kearney & Trecker Corp.	4 W Manilla Ave., Pittsburgh 20	WA2-1565
	KEASBEY & MATTISON CO.	**Ambler, Pa**	
	KEELAVITE HYDRAULICS LTD.	**Allesley, Coventry, Warwickshire, Eng**	
	KEITHLEY INSTRUMENTS, INC.	**12415 Euclid Ave. Cleveland 6, Ohio**	**SW5-2666**
Cal	T. L. Snitzer Co.	5354 W Pico Blvd. Los Angeles	WE8-2075
Colo	Hytronic Measurements, Inc.	1295 Bannock St. Denver	PE3-3701
DC	Keithley Instruments, Inc.	5817 Balt. Ave. Riverdale	AP7-5111
Ill	Lang & Claeson Associates	6733 N Olmstad Ave. Chicago	SP4-3610
Mass	Keithley Instruments, Inc.	30 Shawsheen Rd. Bedford	CR4-7297
Minn	Pinkney & Hine Co.	1925 Nicollet Ave. Minneapolis	FE8-0523
Mo	Engineering Services Co.	4550 Main St. Kansas City	JE1-7765
NJ	Keithley Instruments, Inc.	2 Godwin Ave. Ridgewood	GI4-7242
NC	Bivins & Caldwell, Inc.	Box 5187, High Point	2-6873
Tex	T. W. Ecklund	Box 12151, Ft. Worth	PE8-9773
Wash	R. Drake Associates	1817 Norman St. Seattle	EA8-8545
	KELLEY & CO., O. G.	**98 Taylor St. Boston 22, Mass.**	**TA5-1040**
Mass	O. G. Kelley & Co.	Box 175, Shrewsbury	VI2-6300
NJ	O. G. Kelley & Co.	920 Westfield Ave. Elizabeth	EL2-1265
Ohio	O. G. Kelley & Co.	12699 Elmwood Ave. Cleveland	CL2-4622
Pa	O. G. Kelley & Co.	1721 Oliver Bldg. Pittsburgh	EX1-0223
Tenn	O. G. Kelley & Co.	724 W Walnut St. Johnson City	JO171
	KELLEY INDUSTRIES INC.	**Eighty-Four, Pa**	**BA2-6980**
	KELLOGG SWITCHBOARD & SUPPLY CO.	**6650 S Cicero Ave. Chicago 38, Ill**	**PO7-6900**
	KELSEY-HAYES CO.	**New Hartford, NY**	**RE5-6411**
	KELSEY-HAYES CO. UTICA DROP FORGE & TOOL DIV.	**Utica 4, NY**	**RE5-6411**
Cal	R. L. Page	2054 Della Ln. Anaheim	LE9-0379
Cal	G. L. Black	3721 Orangerie Way, Carmichael	IV9-1700
Conn	C. L. Lawless	87 Washington Circle, W Hartford	AD2-3863
	KEMLITE LABORATORIES	**1819 W Grand Ave. Chicago, Ill**	**TA9-6050**
	KENDALL CO. POLYKEN SALES DIV.	**309 W Jackson Blvd. Chicago 6, Ill**	
	KENNAMETAL, INC.	**Latrobe, Pa**	**KE7-3311**
Cal	Kennametal, Inc.	Box 58443, Vernon Sta. LA 58	LU3-2191
Conn	Kennametal, Inc.	Box 326, Windsor Locks	NA3-3369
Ill	Kennametal, Inc.	5830 W 26th St. Chicago 50	BI2-2420
Mich	Kennametal, Inc.	10201 Capital Ave. Detroit 37	JO6-3183
Pa	Kennametal, Inc.	600 Grant St. Pittsburgh 19	AT1-4543
Pa	Kennametal, Inc.	3701 N Broad St. Philadelphia 40	BA9-3442
	KENNECOTT COPPER CORP.	**161 E 42 St. New York 17, NY**	**MU7-5800**
	KENT CHEMICALS LTD.	**1292 Franklin St. Vancouver 6, B C**	**AL3-6545**
	KEPCO, INC	**131-38 Sanford Ave. Flushing 52, NY**	
Ala	S. S. Lee Associates, Inc.	Utilities Bldg. Huntsville	JE6-0631
Cal	V. T. Rupp Co.	3445 5th Ave. San Diego	CY8-9835
Conn	R. Perron & Co., Inc.	36 Louis St. Trumbull	AM8-9631
Ill	R. L. Lang & Associates	6733 N Olmstead Ave. Chicago	SP4-3610
Kan	N. W. Kathrinus & Co.	4306 Cambridge Ave. Kansas City	JO2-4108
Mich	Gaine Engineering	1474 E Outer Dr. Detroit	FO6-5353
Mich	The Satullo Co.	4512 N Woodward Ave. Royal Oak	LI9-3910
NY	Naco Electronics Corp.	704 Allen Rd. N Syracuse	GL6-2358
Pa	Eastern Associates, Inc.	820 Homestead Rd. Jenkintown	TU4-7200
Tex	A. Barnes Co.	3603 Lemmon Ave. Dallas	LA6-8735
Wash	H. Levinson Co.	1117 2nd Ave. Seattle	MA2-5433
Can	Ward Leonard of Canada, Ltd.	1070 Birchmount Rd. Toronto, Ont.	PL7-4131
	KESSLER CHEMICAL CO., INC.	**State Rd. & Cottman Ave. Phila 35, Pa**	**DE2-6565**
Mass	Kessler Chemical Co., Inc.	115 High St. Boston 10	HA6-0285
Mich	C. L. Hueston Co.	16160 James Couzens Hwy. Detroit 27	UN2-2906
Mo	A. W. Pauley	49 Beaver Dr. St. Louis 24	WY3-4906
Ill	Kessler Chemical Co., Inc.	7101 Stony Island Ave. Chicago 49	PL2-6666
NY	Kessler Chemical Co., Inc.	50 Church St. New York 7	CO7-5728
Tenn	L. E. Offutt Co.	Box 8063, Memphis 4	ME5-1851
	KEUFFEL & ESSER CO.	**300 Adams St. Hoboken, NJ**	**OL9-1100**
Cal	Keuffel & Esser Co. of NY	1327 S Olive St. Los Angeles 15	
Cal	Keuffel & Esser Co. of NY	2675 Folsom St. San Francisco 10	
Colo	Keuffel & Esser of Colorado, Inc.	1641 California St. Denver	
Ill	Keuffel & Esser Co. of NY	520 S Dearborn St. Chicago 5	
Mich	Keuffel & Esser Co. of NY	5535 Woodward Ave. Detroit	
Mo	Keuffel & Esser Co. of NY	4931 Daggett Ave. St. Louis 10	
NY	Keuffel & Esser Co. of N Y	15 Park Row, New York 38	DI9-2400
Tex	Keuffel & Esser of Texas, Inc.	2211 Pacific Ave. Dallas	
Wash	Keuffel & Esser of Wash., Inc.	2701 Second Ave. Seattle 1	
Wis	Keuffel & Esser Co. of Wis, Inc.	783 N Water St. Milwaukee 2	
Can	Keuffel & Esser of Canada, Ltd.	679 St. James St. W. Montreal 3, P.Q.	
	KEWAUNEE MFG. CO.	**5083 S Center St. Adrian, Mich**	**CD5-7131**
Ala	Kewaunee Mfg. Co.	964 N Martinwood Dr. Birmingham 6	VE3-1937
Cal	M. Busch	2442 Park Blvd. Palo Alto	DA2-4790
Cal	T. Dewey Co. Inc.	1870 Temple Terr. Laguna Beach	HY4-7110
Ill	Kewaunee Mfg. Co.	715 Sheridan Rd. Evanston	GR5-7026
Mo	Hoover Brothers, Inc.	1020 Oak St. Kansas City 6	VI6720
NJ	Kewanee Mfg. Co.	10 Hillside Ave. Englewood	LO7-0444
NM	J. Barnes Co.	700 Haines Ave. NW, Albuquerque	CH7-1821
Pa	Kewaunee Mfg. Co.	Commercial Trust Bldg. Philadelphia	LO7-2655
Pa	G. T. Moran	2719 Phillips Ave. Pittsburgh 28	HU6-5738
Tex	W. C. Hixon Co.	306 N Austin St. Dallas 2	RE3-8652
Utah	Braun-Knecht-Heimann Co.	650 W S S, Salt Lake City	EM3-3961
Wash	G. A. Goddard Co.	4158 California Ave. Seattle 16	WE7-8414
	KEYSTONE CARBON CO. RESISTOR DIV.	**St. Marys, Pa**	**TE4-1591**
Ariz	L. G. Snyder Co.	1418 N Highland Ave. Hollywood 28, Cal	HO9-6278
Cal	L. G. Snyder Co.	1418 N Highland Ave. Hollywood 28	HO9-6278
Mass	Bordewieck Eng. Sales Co.	221 Grove St. Braintree	VI5-3645
NJ	D. R. Bittan Co.	104 S Central Ave. Valley Stream, NY	LO1-2444
NY	D. R. Bittan Co.	104 S Central Ave. Valley Stream	LO1-2444
Ohio	R. A. Leitch	17112 Pearldale Ave. Cleveland 11	ED1-9349
	KEYSTONE PRODUCTS CO.	**904-6 23rd St. Union City, NJ**	**UN6-5400**
Fla	Scientific Sales Engineering Co.	2162 Piedmont Rd. NE, Atlanta, Ga	TR3-2475
NJ	Dickison Sales Co. Inc.	302 Marlton Pike, Erlton	HA8-4586
NY	R. J. Marcy Associates	1776 Broadway, New York 19	CI5-3880
	KIELEY & MUELLER CO., INC	**64 Genesee St. Middletown, NY**	**DI2-2526**
Cal	Rodman & Co.	420 Market St. San Francisco 11	YU2-0824
Cal	Bogart-Bullock Corp.	6010 S Normandie Ave. Los Angeles 44	PL1-6129
Colo	J. B. Drummond Co.	1080 S Cook St. Denver 9	SP7-6748
Ga	Rittelmeyer & Co. Inc.	150 Nassau St. NW, Atlanta 1	JA6-1831
Ill	Frabimor Equip & Controls, Inc.	800 N Clark St. Chicago	SU7-4366
Mich	Colley & Schlee, Inc.	Box 55, Southfield	EL6-7200
Mo	Matney & Hanna Co.	11 E Gregory Blvd. Kansas City 14	EM3-1771
Neb	H. G. Klug Co.	2029 N 67th Ave. Omaha 4	GL1377
NY	Dynatrol, Inc.	96 Liberty St. New York 6	WO4-1388
Pa	Arobone & Cline	33rd & Arch Sts. Philadelphia 4	EV2-6850
Tex	Continental-Viking, Inc.	9426 Katy Rd. Houston 24	HO6-5547
Wash	The Instrument Laboratory	934 Elliott Ave. Seattle 99	AT2-5850
	KIENZLE APPARATE GmbH	**Villingen Schwarzwald, Ger**	**7281**
Eng	Radiatron	7 Sheen Pk. Richmond, Surrey	3285
Neth	Ingenieursbureau Heijnen	Maasweg 63, Gennep	08851-236
Swit	Standard Telephone & Radio AG.	Zweisntr. 34, Zurich	482800
	KIFFER TOOL & DIE INC.	**5601 Tillman Ave. Cleveland 2, Ohio**	**WO1-2440**
	KILOVOLT CORP.	**2 Manor House Sq. Yonkers, NY**	**YO9-3615**
Cal	R. L. Pflieger Co.	1652 Laurel St. San Carlos	LY1-0596
Cal	R. Olander & Co.	6313 Santa Monica Blvd. Los Angeles	HO9-6313
Mass	Elton Engineering Sales	246 Walnut St. Newtonville	DE2-6975
Minn	P. Lind Electronics	9731 Western Ave. Circle Pines	SU4-3827
Mo	Engineering Services Co.	6617 Vernon Ave. St. Louis	PA5-2233
Pa	S & S Associates	780 W DeKalb Pike, King of Prussia	SB9-7192
	KING LABORATORIES, INC.	**127 Seler St. Syracuse 3, NY**	**GR4-3359**
	KINNEY, INC. A. M.	**2912 Vernon Pl. Cincinnati 19, Ohio**	**PL1-3934**
NY	A. M. Kinney Associates	60 E 56th St. New York 22	PL5-6288
	KINNEY VACUUM DIV. THE NY AIR BRAKE CO.	**3529 Washington St. Boston 30, Mass**	**JA2-7100**
Cal	K. Knight Co.	360 Jefferson St. San Francisco 11	PR6-2700
Cal	Kinney Vacuum Div.	6068 Venice Blvd. Los Angeles 19	WE8-7292
Fla	Kinney Vacuum Div.	115 Park St. Jacksonville	EL4-8966
Ill	Kinney Vacuum Div.	17-19 S La Grange Rd. La Grange	FL2-1290
Md	Tate Engineering, Inc.	516 S Eutaw St. Baltimore 1	LE9-0787
NJ	Kinney Vacuum Div.	1325 Admiral Wilson Blvd. Camden 11	WO6-5050
NY	Kinney Vacuum Div.	90 Church St. New York 7	WO4-8470
NY	Kinney Vacuum Div.	State Towers Bldg. Syracuse	HA2-6563
Ohio	Kinney Vacuum Div.	240 E 305th St. Willowick	WH3-6900
Pa	Harris Pump & Supply Co.	Brady & Sidney Sts. Pittsburgh 3	HU1-4400
Tex	Kinney Vacuum Div.	2720 W Mockingbird Ln. Dallas	FL2-2860
W Va	Harris Pump & Supply Co.	922 Quarrier St. Charleston	DI6-0889
	KIN TEL DIV. CONU ELECTRONICS, INC.	**5725 Kearny Villa Rd. San Diego 12, Cal**	**BR7-6700**
Cal	Neely Enterprises	3939 Lankershim Blvd. North Hollywood	TR7-9721
Colo	Williams & Associates, Inc.	2261 S Albion St. Denver 22	SK6-9428
Fla	Bivins & Caldwell	Box 7042, Orlando	CH1-1091
Md	Norman Associates, Inc.	3006 W Cold Spring Ln. Baltimore 15	MO4-8345
Minn	Crossley Associates, Inc.	842 Raymond Ave. St. Paul	MI6-7681
Mo	Harris-Hanson Co.	7916 Paseo Ave. Kansas City	HI4-9494
NY	R&C Associates	236 E 75th St. New York 21	TR9-2025
NY	J. D. Ryerson Associates, Inc.	Box 1400, Syracuse	GR6-1771
Pa	F. F. Bartlett & Co.	18 West Ave. Wayne	MU8-7325
Pa	H. E. Ransford Co.	5400 Clairton Blvd. Pittsburgh	TU4-3425
Tex	A. Barnes Co.	3603 Lemmon Ave. Dallas 19	LA6-8735
Wash	ARVA	1920 Prospect St. Seattle 99	MA2-8177

	KITSON'S INSULATIONS LTD.	**London Rd. Barking, Essex, Eng**	**RI5544**
Eng	Kitson's Insulations, Ltd.	Box 138, Leicester	LE2-4218
Eng	Kitson's Insulations, Ltd.	Warrington, Lancs.	WA3-1346
Eng	Kitson's Insulations, Ltd.	6 Beauley Rd. Southville, Bristol	BS5-1934
Eng	Kitson's Insulations, Ltd.	52 Rectory Rd. St. Clements, Oxford	OX4-2479
Eng	Kitson's Insulations, Ltd.	28 Vernon Cl. Gosport, Hants	GO8-1972
Scot	Kitson's Insulations, Ltd.	490 Dobbies Loan, Glasgow, C. 4	DO2248
	KLOCKNER-WERKE AG	**Bessemerstr 1, Osnabruck, Ger**	**3221**
NY	M. Stern	10 E 40th St. New York	MU9-3015
	KNAPP MILLS, INC.	**23-15 Borden Ave. LIC, NY**	**RA9-8550**
Del	Knapp Mills, Inc.	Ft. of West St. Wilmington	OL8-1661
NY	Knapp Mills, Inc.	375 Park Ave. New York	PL9-4667
	KNIGHT CO., MAURICE A.	**Box 111, Akron 9, Ohio**	**PA4-1277**
Cal	G. R. Oster	505 Hollingsworth Blvd. Los Angeles 14	MA2-1444
Fla	V. O. Bonnichsen	1102 Texar Dr. Pensacola	HE5-3892
Mich	The Packline Co.	5445 Oakman Blvd. Dearborn	LU4-0070
Mo	Industrial Process Equipment Co.	4903 Delmar, St. Louis	RO7-5044
NY	F. M. Klein	130 W 42nd St. New York	CH6-8145
NY	Schultz-Forster Assoc.	Box 2746, Buffalo 26	CI2227
NY	Schultz-Forster Assoc.	Burdett Bldg. Troy	AS2-5160
Ohio	R. A. Mueller Assoc.	920 E McMillan, Cincinnati 16	PL1-0583
Pa	H. B. Smith, Jr.	717 Madison Ave. Chester	TR2-2597
Tenn	P. A. Chapman & Assoc.	Box 787, Elizabethton	2-6611
Tex	W. C. Buchanan Co.	4101 San Jacinto, Houston 4	JA8-2072
Can	D. C. Orrock & Co.	4925 DeSorrel St. Montreal, Quebec	RE8-9242
	KNOPP, INC.	**1307 66 St. Oakland, Cal**	**OL3-1661**
Cal	C. C. Blacksmith	Box 54, Covina	ED2-2150
Colo	Hamilton Associates	1236 Elati St. Denver 4	CH4-2901
Fla	Ward Engineering Co. Inc.	Box 5545, Orlando	GA2-4295
Ill	A. C. Davey	4733 Wallbank Ave. Downers Grove	WO8-[illegible]
La	Gregory-Salisbury & Co. Inc.	820 Julia St. New Orleans 12	TU5207
Mass	Dempsey-Gowen Co. Inc.	Box 284, Needham 92	HI4-4618
Mich	Horton Electric Sales	1J545 Memorial Ave. Detroit	VE8-1452
Neb	C. R. Bangh	524 W.O.W. Bldg. Omaha 2	AT4232
NY	C. T. Nevins & Associates	401 Woodside Ave. Narberth, Pa	MO4-2248
Pa	W. Goodridge	Box 98033, Pittsburgh	TU1-5807
SC	T. L. Bissell	Box 776, Charleston 2	RA3-0692
Tex	H. F. Corry Co.	6315 Hillcrest Ave. Dallas 5	LA8-9172
	KOBE KOGYO CORP.	**1-5 Wadayama-Dori, Kobe, Jap**	
Cal	American Electronics, Inc.	9449 W Jeffenon Blvd. Culver City	UP0-7245
	KOLLMORGEN CORP.	**347 King St. Northampton, Mass**	**JU4-0780**
Ariz	Costello & Co.	2740 S LaCienega Blvd. L A 34, Cal	
Cal	Costello & Co.	2740 S LaCienega Blvd. Los Angeles 34	
Ill	Carlson Electronic Sales	6677 N Northwest Hwy. Chicago 31	
Minn	F. Peterson Co.	2431 Hennetin Ave. Minneapolis 5	
	KOONTZ-WAGNER ELECTRIC CO. N. Michigan & Marion, South Bend, Ind		**CE2-2051**
Mich	Heick & Ralph Associates	4765 Bellevue Ave. Detroit 7	WA1-2955
NY	C. F. Russell Co.	50 Park Ave. Bay Shore	MO5-2623
	KOPPERS CO., INC. NUCLEAR PRODS. SEC. Pittsburgh 19, Pa		
	KRANTZ LUFTTECHNIK H.	**Aachen-Richterich, Germany**	**AA37044**
	KULITE TUNGSTEN CO	**1040 Hoyt Ave. Ridgefield, NJ**	**WH5-3000**
	KULJIAN CORP.	**1200 N Broad St. Philadelphia 21, Pa**	**CE2-9000**
DC	Kuljian Corp.	1025 Conn. Ave. NW, Washington 6	DI7-3042
	KULKA ELECTRIC CORP.	**633 S Fulton Ave. Mt. Vernon, NY**	**MO4-4324**
Cal	R. A. Strasner Co.	1557 N Western Ave. Los Angeles	
Ill	R. A. Hanke	2660 N Clybourn Ave. Chicago 15	
Mass	C. Segel Co.	1262 Commonwealth Ave. Boston 34	
Mich	ABM Sales Co.	10116 Puritan Ave. Detroit 38	
Minn	R. G. Ragon, Inc.	1406 W Idaho Ave. St. Paul 4	
Mo	R. W. Farris Co.	406 W 34th St. Kansas City 2	
NY	L. D. Allen Co., Inc.	115 Luther Ave. Syracuse 8	
NY	The Friedman Co.	519 S 5th Ave. Mount Vernon	
Ohio	The Lackritz Co.	1836 Euclid Ave. Cleveland 11	
Pa	L. Slubin & Co.	2305 Fairmount Ave. Philadelphia 30	
Tex	G. V. Peck Co.	130 Casa Linda Plaza, Dallas 18	
Wis	Martin-Gaertner Sales Corp.	1108 N 3rd St. Milwaukee 3	
	KUNKLE VALVE CO.	**121 S Clinton St. Fort Wayne, Ind**	**A-7283**
	KUPFRIAN MFG. CO.	**350 State St. Binghamton, NY**	**RA3-6426**
Cal	Industrial Product Sales	1417 Georgia St. Los Angeles 15	RI7-0125
Cal	Milligan-Spika	1485 Bayshore Dr. San Francisco 24	JU5-8153
Colo	Ruehle Sales Co.	475 S Leyden St. Denver	SW5-7472
Ill	J. C. Angel & Co.	2743 W Paterson Ave. Chicago 45	UP8-0653
Ind	J. C. Angel & Co.	2743 W Peterson Ave. Chicago 45, Ill	UP8-0854
Mass	T. Kennedy Co.	19 Forest Rd. Wakefield	CR6-5532
NJ	F. Kent Associates	31 Iozia Terrace, East Paterson	SW7-4911
NY	F. Kent Associates	31 Iozia Ave. East Paterson, NJ	SW7-4911
Ohio	Brownie & Associates	3066 E 116th St. Cleveland	
Pa	E. Braddock	Box 305, Haddonfield, NJ	HA9-0087
Tex	Wyborny Sales Co.	166 Merch Mart Bldg. Dallas	RI8-8135
Vt	T. Kennedy Co.	19 Forest Rd. Wakefield, Mass	CR6-5532

	L. & F. MACHINE CO.	**2110 Belgrave Ave. Huntington Park, Cal**	**LU8-7231**
Cal	Lincoln Foundry Corp.	2825 E 49th St. Los Angeles 58	LU8-8121
	LKB-PRODUKTER FAB	**Box 12220, Stockholm 12, Sweden**	
DC	LKB Instruments Inc.	4840 Rugby Ave. Washington 14	OL2-3558
	L & S MACHINE CO. INC.	**Box 317 RD2, Latrobe, Pa**	**TE7-5500**
	LABEM	**Via Amedeo 41, Milano, Italy**	**71 24 94**
	LABGEAR LTD. NUCLEONICS DIV. Cromwell Rd. Cambridge, Eng		
	LABLINE, INC.	**3070-82 W Grand Ave. Chicago 22, Ill**	**SA2-5151**
	LAB. PROF. DR. BERTHOLD Colmbacher Str 22, Wildbad im Schwarzwld Ger		**587**
Mass	Atomium Corp.	940 Main St. Waltham 54	TW4-6900
Aust	M. R. Drott K. G.	Johannesgasse 18, Vienna I	VI524545
Belg	Usines Balteau, S. A.	Rue de Serbie, Liege	LI52.01.40
Chin	Schmidt & Co. Ltd.	16-30 Chater Rd. Hong Kong	27407
Den	Brock & Michelsen	Vestergade 23-25, Copenhagen	CE5-5631
Eng	General Radiological, Ltd.	15-18 Clipstone St. London W 1	MU5089
Holl	Schaeffer & Budenberg	Van de Spiegelstr. 4, 's-Gravenhage	290095
Ire	Nuclear Services	25 Great Strand St. Dublin	DU7-0858
Ital	A. Gilardoni, S.p.A.	Via Statale, Mandello Lario, Como	71.221
Swed	Ing. J. Wendt	Stockholm	ST643441
Swit	M. C. Meister	Lowenstr 25, Zurich	270637
	LABORATORY EQUIPMENT CORP. St. Joseph, Mich.		**YU3-5533**
Cal	Braun Corp.	1363 S Bonnie Beach Pl. Los Angeles	
Colo	Braun-Knecht-Heimann Co.	4300 Holly St. Denver 17	
Ill	Wilkens-Anderson Co.	4525 W Division St. Chicago	
Ky	E. Preiser Co., Inc.	Box 1893, Louisville	
Mo	Chicago Apparatus Co. (Mo.)	5147 Brown Ave. St. Louis 15	
NJ	E. H. Sargent & Co.	35 Stern Ave. Springfield	
NY	Will Corp.	Rochester 3	
Ohio	Hanhaw Scientific	1945 E 97th St. Cleveland	
Pa	A. H. Thomas Co.	3rd & Vine St. Philadelphia	
Tex	W. H. Curtin & Co.	Box 118, Houston	
Wash	Scientific Supplies Co.	600 Spokane St. Seattle 4	
	LAB. FOR ELECTRONICS, INC.	**1079 Commonwealth Ave. Boston, Mass**	**AL4-4235**
Cal	Nelson S Praigg	211 S Beverly Dr. Beverly Hills	CR5-5327
DC	M. B. Thorp	1520 K St. NW, Washington 5	EX3-4556
Mass	G. F. George	LFE Facility, Bedford Airport, Bedford	CR4-0010
NJ	Kenneth K Kelly	60 4th Ave. Atlantic Highlands	PR5-3800
NY	Kenneth F Kelly	60 4th Ave. Atlantic Highlands, NJ	PR5-3000
NY	Robert A Arnold	1018 W Thomas St. Rome	FF6-1641
	LABORATORY for SCIENCE	**5431 College Ave. Oakland 18, Cal**	**OL3-7591**
	LABORATORY FURNITURE CO. INC. Old Country Rd. Mineola, NY		**PI2-3606**
Cal	F. E. Richardson	521 N La Cienega Blvd. Los Angeles	OL3-7428
Cal	K. Spilman, Jr.	115 New Montgomery St. San Francisco	EX5-0265
DC	Graham & Van Leer Co.	2001 Wisc. Ave. NW, Washington	FE3-9120
Ill	H. R. Winton	5875 N Lincoln, Chicago	LO1-5251
Kan	R. E. Massa	8709 Goddard St. Overland Pk.	EM1-1727
Mass	J. F. Marino	620 Commonwealth Ave. Boston	LI2-4588
Mich	D. D. Phillips	Box 2, Adrian	CO3-9171
Minn	W. J. Moulton	2116 Lyndale Ave. S, Minneapolis	FR4-5400
NY	F. H. Fischer	74 Park Ave. Rochester	HI5-5092
Ohio	F. Rozanski	B-3 Section Rd. 1717, Cincinnati 37	RE1-2731
Pa	Metal & Woodcrafters, Inc.	122 S 22nd St. Philadelphia 3	LO3-9310
Tenn	E. Lancaster	Andrew Johnson Hotel-Knoxville	KN4-4823
	LADISH CO.	**5481 S Packard Ave. Cudahy, Wis**	**HU1-1500**
Ala	Ladish Co.	9 Office Park Birmingham	TR9-2493
Cal	Ladish Co.	3321 E Slauson Ave. Los Angeles	LU3-4681
Colo	Ladish Co.	1700 Broadway, Denver	MA3-5371
Ill	Ladish Co.	332 S Michigan Ave. Chicago	HA7-3290
Minn	Ladish Co.	2147 University Ave. St. Paul	MI5-3909
NY	Ladish Co.	60 E 42nd St. New York	MU2-7662
Ohio	Ladish Co.	627 Hanna Bldg. Cleveland	TO1-0642
Okla	Ladish Co.	Thompson Bldg. Tulsa	GI7-7261
Tex	Ladish Co.	1301 W Belt Dr. N. Houston	HO8-2611
Pa	Ladish Co.	3020 Grant Bldg. Pittsburgh	GR1-9516
Wash	Ladish Co.	314 Fairview Ave. N. Seattle	MA4-0747
	LAMBDA ELECTRONICS CORP.	**11-11 131st St. College Point 56, NY**	
	LAND-AIR, INC. SUB CAL EASTERN AVIATION, INC.	**7444 W Wilson Ave. Chicago 31, Ill**	**UN7-7590**
Cal	Stepper Motors Division	16226 S Broadway, Gardena	
Cal	Instrument & Electronic Division	2133 Adams Ave. San Leandro	
DC	Land-Air, Inc.	1510 H St. Washington 6	
	LANDAUER, Jr., & CO., R.S.	**3920 216th St. Matteson, Ill**	**PI8-7900**
Cal	R. S. Landauer, Jr. & Co.	10125 W Washington Blvd. Culver City	VE9-3432
	LANDIS & GYR, INC.	**45 W 45 St. New York 36, NY**	**JU6-4644**
	LANDSVERK ELECTROMETER CO. 641 Sonora Ave. Glendale 1, Cal		**CH5-6687**
	LaPINE & CO., ARTHUR S	**6001 S Knox Ave. Chicago 29, Ill**	**RE5-4700**
DC	T. A. Gates	7801 Norfolk Ave. Bethesda, Md	OL6-8131
La	R. Von Bodungen	807 Opelousas St. New Orleans	JA5-9451

Mich	M. J. Palmer	421 S Barber Ave. Ann Arbor	NO3-8315
NY	Tenso-Lab, Inc.	5 Buckhout St. Irvington-on-Hudson	LY1-8900
	LAPP INSULATOR CO. INC.	**159 Sumner St. LeRoy, NY**	**LE385**
Cal	E. S. Condon Co.	3450 Wilshire Blvd. Los Angeles	DU1-3951
Cal	D. E. Ingalls	1485 Bayshore Blvd. San Francisco	JU6-0332
Fla	Belcher & Associates	8751 Atlantic Blvd. Jacksonville	RA4-7811
Fla	Belcher & Associates	61 NE 2nd St. Miami	FR1-1700
Ill	JSG Electric Co.	6030 Northwest Hwy, Chicago	NE1-9500
Mass	J. Kelso Co.	80 Boylston St. Boston	HU2-3256
NY	V. J. Brown Co.	564 Ellicott Sq. Bldg. Buffalo	CL1122
NY	Joseph & Canning, Inc.	111 Broadway, New York	CO7-0276
Ohio	H. Fisher Assoc.	7016 Euclid Ave. Cleveland	UT1-5757
Tex	E. B. Robertson, Inc.	1339 Plowman St. Dallas	WH2-3187
Wash	C. F. James	905 Lloyd Bldg. Seattle	EL1531
Wis	JSG Electric Co.	2220 S 108th St. Milwaukee	LB3-7160
	LA RADIOTECHNIQUE	**130 Av. Ledru, Rollin, Paris 11, Fr**	**VO18-50**
	LARSON & SONS, INC., CHARLES E. 2665 N Keeler Ave. Chicago, Ill		
	LASKER BOILER & ENGINEERING CORP.	**3201 S Wolcott Ave. Chicago 8, Ill.**	**LA3-3700**
	LAURENCE CO., INC., R.G.	**134 Summit St. Tenafly, NJ**	**LO8-5471**
Alas	Tower Equipment Co.	Box 159, Mercer Island, Wash	AD2-1460
Cal	Oliver B. Lyman Co.	55 New Mongomery St. San Francisco 5	SU1-6440
Del	Ward & Schade, Inc.	720 Bethlehem Pike, Whitemarsh, Pa	CH7-8297
Ill	Hardin & Simmons	140 S Dearborn St. Chicago 3	RA6-1531
Ohio	R. A. Mueller & Associates	920 E MacMillan St. Cincinnati 6	PL1-0583
Pa	G. R. Kepner Co.	1721 Oliver Bldg. Pittsburgh	
Pa	Ward & Schade, Inc.	720 Bethlehem Pike, Whitemarsh	CH7-8297
Tenn	P. Gray	103 Fanz St. Knoxville	4-2556
Tex	H. O'Neill & Son	Box 1166, Houston	JA9-3879
Wash	Tower Equipment Co.	Box 159, Mercer Island	AD2-1460
	LaVEZZI MACHINE WORKS	**4635 W Lake St. Chicago 44, Ill**	**ES8-1636**
Ariz	F. J. Schoeffler	5822 S Wilshire Dr. Tucson	AX9-6173
Ill	A. K. Wanner	356 W Huron St. Chicago 10	SU7-4841
Mich	J. Walsh	411 East Dr. Marshall	ST1-2322
NY	S. Brant	1058 Southern Blvd. Bronx 59	DA9-6455
	LAWRENCE PUMPS, INC.	**371 Market St. Lawrence, Mass**	**2-5249**
	LAYNE & BOWLER, INC.	**Box 6697, Hollywood Sta. Memphis 8, Tenn**	**BR5-1192**
	LEACH CORP.	**18435 Susana Rd. Compton, Cal**	**NE6-1061**
Cal	Leach Corp.	1101 Wilshire Blvd. Los Angeles 17	HU2-0790
Cal	Leach Corp.	814 San Antonio Rd. Palo Alto	
NY	Leach Corp.	405 Lexington Ave. New York 17	YU6-2520
Ohio	Leach Corp.	333 W 1st St. Dayton 2	BA2-8652
Ohio	Leach Corp.	8905 Lake Ave. Cleveland	OL1-1434
Wash	Leach Corp.	5 Airport Anx. Boeing Fld. Seattle 8	PA5-6978
RP	Leach International, S. A.	Apt. Postal 5116, Panama	
Swit	Leach International, S. A.	Box 379, Zurich	ZU25-68-27
	LEAD FABRICATORS, INC.	**25 Belgrove Dr. Kearny, NJ**	**WY1-7500**
	LEAD PRODUCTS, INC.	**Hartford Rd. Manchester, Conn**	**MI3-7122**
	LEADER IRON WORKS, INC.	**2110 N Jasper St. Decatur, Ill**	**428-2103**
	LEAR, INC.	**110 Ionia Ave. N W, Grand Rapids, Mich**	**GL1-1542**
Cal	Lear, Inc.	3171 S Bundy Dr. Santa Monica	EX8-6211
Conn	Smith & Whelan Co.	Darien	OL5-0400
DC	Lear, Inc.	1701 K St. NW, Washington	ST3-3545
Ga	Lear, Inc.	2025 Peachtree Rd. Atlanta	TR5-9124
Ill	Berndt & Associates	610 Longwood Ave. Glencoe	ST2-1155
Ky	J. W. Dorney & Associates	421 Scott St. Covington	
Mich	Electro-Mation Associates	4012 E 9 Mile Rd. Warren	JE9-1420
Mo	Lear, Inc.	Box 6092, Lambert Airport Branch, St. Louis 24	PE1-3069
Ohio	Lear, Inc.	333 W 1st St. Dayton	BA2-5524
Tex	Pan-Tech Engineering Co.	3302 Mercer St. Houston	JA6-4623
Wash	Lear, Inc.	Adm. Bldg. Boeing Field, Seattle	PA3-8274
Can	Railway & Power Eng. Corp., Ltd.	3745 St. James St. W, Montreal	WE6741
	LECTROMELT FURNACE DIV. McGRAW-EDISON CO.	**32nd St. Pittsburgh 30, Pa**	**GR1-8782**
	LEDEX, INC.	**123 Webster, Dayton 2, Ohio**	**BA4-9891**
Ala	A. Flaugher, Jr.	305 N 90th St. Birmingham 6	VE3-5331
Cal	C. R. Dalton, Associates	1037 Laurel St. San Carlos	LY1-2654
Cal	Ledex, Inc.	4331 1/4 Leimert Blvd. Los Angeles 8	AX2-9189
Colo	Hyde Electronics Co.	888 S Lipan St. Denver 23	WE6-3456
Ill	Bierhaus-Balhorn Sales, Inc.	7185 W Armitage, Chicago 35	TU9-5011
Mass	K. C. Stevens	235 Bedford St. Lexington 73	VO8-1812
Mo	J. Loucks	10 Thorncliff Ln. Kirkwood 22	YO5-6801
NJ	Ledex, Inc.	10 Park Pl. Morristown	JE8-7617
Pa	R. F. Clark Co.	1409 Clark Bldg. Pittsburgh 22	AT1-8089
Pa	V. S. Malta	Box 4007, Philadelphia 18	VE6-5122
Wash	D. Thompson	Testco, Boeing Fld. Seattle 8	PA3-9000
Wis	E. A. Dickinson & Associates	4117 N GreenBay Ave. Milwaukee 9	CO4-1080
	LEDOUX & CO.	**359 Allred Ave. Teaneck, NJ**	**TE7-7160**

	LEEDS & NORTHRUP CO.	**4936 Stenton Ave. Philadelphia 44, Pa**	
Cal	Leeds & Northrup Co.	1190 Monterey Pass Rd. Monterey Park	AN9-3191
Cal	Leeds & Northrup Co.	1095 Market St. San Francisco 3	MA1-3464
Ga	Leeds & Northrup Co.	3084 Grandview Ave. NE, Atlanta 5	CE7-8624
Idah	Leeds & Northrup Co.	455 E 4th S, Salt Lake City 11, Utah	DA8-8861
Ill	Leeds & Northrup Co.	307 N Michigan Ave. Chicago 1	CE6-3428
Iowa	Leeds & Northrup Co.	Apt. 23A Wakonda Vlge. Des Moines 15	CH3-6081
Ky	Leeds & Northrup Co.	3084 Grandview Ave. NE, Atlanta 5, Ga	CE7-8624
NM	Leeds & Northrup Co.	1545 Glenarm Pl. Denver 2, Colo	AC2-1808
NY	Leeds & Northrup Co.	711 3rd Ave. New York 17	MU7-4133
Ohio	Leeds & Northrup Co.	1922 E 107th St. Cleveland 6	SW1-5100
Pa	Leeds & Northrup Co.	Fort Washington	MI6-5500
Wash	Leeds & Northrup Co.	1911 Republican St. Seattle 9	MA3-5505
	LEEMATH, INC.	**Oak Dr. Syosset, NY**	**WA1-3080**
	LEIGHTON LABS., H.W.	**York Rd & Sunset Ln. Hatboro, Pa**	
	LEL, INC.	**75 Akron St. Copiague, NY**	
Cal	J. E. Hachten Co.	8413 Las Tunas, San Gabriel	CU3-7951
Fla	DBM Research Corp.	Stoddard Bldg. Cocoa Beach	SU3-2438
Mass	Meco, Inc.	Box 267, Wakefield	
NJ	Central Associates.	44 N Dean St. Englewood	LO5-8808
NY	J. A. Reagan Co., Inc.	45 N Lake Ave. Albany 3	HE6-9649
NY	J. Washington Associates	257 Winton Rd. Rochester	HU2-9353
NC	J. Rudisill Associates	2009 N Tryon St. Charlotte 6	FR6-4198
Pa	C. E. Snow Co.	919 E Phil-Ellena St. Philadelphia 50	LI8-8045
Tex	Ind. Assoc. Electronics, Inc.	2311 Farrington, Dallas 7	JE1-1152
Wash	Paratech Agencies	9810 28th Ave. NW, Seattle	SU4-6447
Can	E. G. Lomas	227 Laurier Ave. W, Ottawa 4	CE2-8504
For	Dage Corp.	219 E 44th St. New York 17	MU2-6755
	LELAND AIRBORNE PRODUCTS DIV. AMF Box 128, Vandalia, Ohio		**TW8-5881**
Cal	Bartek & Hiatt	7046 Hollywood Blvd. Los Angeles	
Va	M. C. Kenworthy	1025 N Royal St. Alexandria	
Wash	J. Findley Co.	Box 7171, Bellevue	
	LELAND PAINT & VARNISH CO., LTD. Leyland, Lancs, Eng		**LE21481**
Eng	Leland Paint & Varnish Co., Ltd.	75 Newman St. London	MU9016
Eng	Leland Paint & Varnish Co., Ltd.	53 Bocks Rd. Douglas, Isle of Man	6029
Eng	Leland Paint & Varnish Co., Ltd.	161 County Rd. Walton, Liverpool	AI1383
Eng	Leland Paint & Varnish Co., Ltd.	66-68 Bridge St. Manchester	BL3739
Eng	Leland Paint & Varnish Co., Ltd.	70 Snig Hill, Sheffield 3	24179
Eng	Leland Paint & Varnish Co., Ltd.	220 Corporation St. Birmingham 4	CE3837
Eng	Leland Paint & Varnish Co., Ltd.	7 Gallowgate, Newcastle-On-Tyne	20792
Ire	Leland Paint & Varnish Co., Ltd.	42 Queen St. Belfast	23962
Scot	Leland Paint & Varnish Co., Ltd.	10 & 30 Grassmarket, Edinburgh 1	CA1424
Scot	Leland Paint & Varnish Co., Ltd.	88-92 York St. Glasgow	CE9601
W	Leland Paint & Varnish Co., Ltd.	151-153 Mostyn St. Llandudno, N Wales	77614
W	Leland Paint & Varnish Co., Ltd.	55 St. Mary St. Cardiff, S Wales	27676
	L'ELECTRONIQUE APPLIQUEE	**25 rue de Docteur Finlay, Paris 15, Fr**	
	LENKURT ELECTRIC CO.	**1105 County Rd. San Carlos, Cal**	**LY1-8641**
DC	Lenkurt Electric Co.	425 - 13th, NW, Washington	ST3-2576
Ga	Lenkurt Electric Co.	508 Atlanta Fed Savings Bldg. Atlanta	JA9-0228
	LENNARD CO., INC., P.M.	**1061 E 8th St. Jacksonville 6, Fla**	**EL4-5604**
Cal	C. W. Reed Co.	5959 S Hoover, Los Angeles 44	PL3-2231
	LENOX INSTRUMENT CO.	**2910 Chancellor St. Philadelphia 3, Pa**	**LO8-6611**
Cal	Abbott Instrument & Eng. Co.	10513 Santa Monica Blvd. Los Angeles	GR6-5810
Can	The Hughes Owens Co. Ltd.	1440 McGill College Ave. Montreal, Que.	
	LERNA ENGINEERING CORP.	**53 Clark Ave. Northampton, Mass**	**JU4-7356**
	LEVINTHAL ELECTRONIC PRODS., INC. 3180 Hanover St. Palo Alto, Cal		**DA6-1640**
Cal	O'Halloran Associates	11636 Ventura Blvd. North Hollywood	TR7-0173
NY	Burlingame Associates	510 S Fulton Ave. Mount Vernon	MO4-7530
Ohio	H. Tepitz & Co.	3543 Cornell Dr. Dayton 6	CR7-9178
	LEWIS ENGINEERING CO.	**339 Church St. Naugatuck, Conn**	**PA9-5253**
	LEYBOLD-HOCHVAKUM-ANLAGEN GmbH Bonner Str. 504, Koln-Bayenthal Ger		**4716**
Mass	NRC Equipment Corp.	160 Charlemont St. Newton Hglnds. 62	
Arg	Guillermo Kaller	Castilla Correo 4393, Buenos Aires	
Aus	Trenkal & Co. KG	Innrain 29, Innsbruck	
Bel	Office Commercial Technique	84 Chaussee de Haecht, Bruxelles	
Fr	Jarre-Jacquin	18 Rue Pierre Curie, Paris	
Ital	Chima Eximport S.P.A.	Via Fiume 23, Post. 4192, Milan	
Jap	C. Correns & Co. Ltd.	3, 2-Ch. Ginza-Nishi, Chuo-Ku, Tokyo	
Swed	Bergman & Beving	Karlavagen 76, Stockholm 10	
Swit	Willy Bauder	Ramistr 9, Zurich	
	LEYBOLD'S NACHFOLGER, E.	**Bonner Str. 504, Koln-Royenthal, Ger**	
Mass	National Research Corp.	160 Charlemont St. Newton Highlands 61	
	LIBRASCOPE DIV.GEN PRECISION INC. Glendale 1, Cal		**CI4-6541**
	LICON DIV. ILLINOIS TOOL WKS. 6666 W Dakin St. Chicago 34, Ill		**AV2-4040**
Cal	McKnight Co.	1436 El Camino Real, Menlo Park	DA6-3782
Colo	Electronic Comps. Sales, Inc.	2149 S Clermont, Denver 22	PE3-7171
Conn	Walworth Controls Co.	131 Main St. Rocky Hill	JA9-6906
Ill	Clagett Eng. Sales Co.	5118 N 2nd St. Rockford	TR7-3239

Ill	Rockford Controls Co.	Box 671, Glen Ellyn	HO9-8016
Ind	Hoemig Sales Co.	Butler Ct. Fort Wayne	A2083
Minn	A. J. Warner Co.	5022 29th Ave. S, Minneapolis 17	PA9-7371
Mo	Thunderbird Eng. Sales & Services	2826 Main St. Kansas City	WE1-9779
NY	W. Wall	Box 26, Boston	XH1-3162
NY	S-J Sales Engineering Co.	130 Lafayette St. New York 13	WO2-7766
NC	F. C. Nickerson Co.	2334 Orton St. Charlotte	EX3-3673
Wash	J. Findlay Co.	Box 717, Bellevue	GL4-4519

LIEBEL-FLARSHEIM CO. DIV. RITTER CO., INC. 400 West Ave. Rochester, NY

LIGHOSTONE IMPORT CO. Box 65, Gracie Sta. NY 28, NY. YU8-4239

LINCOLN ELECTRIC CO. LTD. Black Fen Rd. Welwyn Garden City, Herts, Eng

LINCOLN FOUNDRY CORP. 2525 E 49 St. Los Angeles, Cal LU8-8121

Cal	L. & F. Machine Co.	2110 Belgrave Ave. Huntington Park	LU8-2234

LIND INSTRUMENTS, INC. 2294 Moro Dr. Mountain View, Cal. YO8-8884

Cal	The Thorson Co.	7361 Melrose Ave. Los Angeles 46	WE4-1191
NJ	Bonn Assoc.	57 New St. Metuchen	LI9-9573
Wash	The Thorson Co.	1767 16th Ave. Seattle 44	EA5-5068

LINDBERG ENGINEERING CO. 2450 W Hubbard St. Chicago 12, Ill MO4-3443

Cal	Lindberg Engineering Co.	11937 S Regentview Ave. Downey	SP3-1987
Ind	Lindberg Engineering Co.	230 E Ohio St. Indianapolis 4	ME5-4574
Mich	Lindberg Engineering Co.	1220 S Woodward Ave. Royal Oak	JO6-3128
Mich	Lindberg Engineering Co.	1710 Kingston Ave. Kalamazoo	SP3-1987
Mo	R. R. Stephens Machinery Co.	8145 Olive Blvd. St. Louis 30	WY1-0502
NY	Lindberg Engineering Co.	420 Lexington Ave. New York 17	OS5-8750
Ohio	Lindberg Engineering Co.	1414 Victoria Ave. Cleveland 7	AC1-5576
Pa	Lindberg Engineering Co.	3709 W Chester Pike, Newton Square	EL9-6900
Pa	Lindberg Engineering Co.	345 Mt. Lebanon Blvd. Pittsburgh 34	LO1-5666
Wis	Lindberg Engineering Co.	9137 W Lisbon Ave. Milwaukee 22	HO2-3420

LINDE CO. DIV. UCC 270 Park Ave. New York 17, NY LL1-2345

LINK DIV. GEN. PRECISION, INC. Binghamton, NY RA3-9311

Cal	Link Div.-Gen. Precision, Inc.	530 University Ave. Palo Alto	DA6-2776
Cal	Link Div.-Gen. Precision, Inc.	7046 Hollywood Blvd. Hollywood 28	HO4-7564
DC	Link Div.-Gen. Precision, Inc.	777-14th St. NW, Washington	EX3-0812
Ohio	Link Div.-Gen. Precision, Inc.	333 W 1st St. Dayton	BA4-3371
Tex	Link Div.-Gen. Precision, Inc.	3327 Winthrop St. Fort Worth 16	PE2-4361
Utah	Link Div.-Gen. Precision, Inc.	2000 Texas St. Salt Lake City 8	HU5-0547

LINTRONIC LTD. 47 Charing Cross Rd. London, WC2, Eng

LIQUID CARBONIC DIV. GENERAL DYNAMICS CORP. 135 S La Salle St. Chicago 3, Ill FI6-8181

Cal	General Dynamics Corp.	767 Industrial Rd. San Carlos	LY1-0753
Ga	General Dynamics Corp.	743 McDaniel St. SW, Atlanta	MU8-2328
Ill	General Dynamics Corp.	4400 W 45th St. Chicago	BI7-8000
NJ	General Dynamics Corp.	630 Washington Ave. Belleville	PL1-1200
Ohio	General Dynamics Corp.	1318 W 58th St. Cleveland	AT1-0960
Pa	General Dynamics Corp.	Front & Porter Sts. Philadelphia	HO5-8300

LIQUID METALS, INC. Box 2666, Westford, Mass MY2-8032

LITHCOTE CORP. 5000 W Lake St. Melrose Park, Ill

Cal	Pacific Lining Eng. Corp.	350-15th St. Richmond	BE4-7141
Ga	Potter & Rayfield, Inc.	Box 1042, Atlanta	TR2-7771
NY	Metal Cladding, Inc.	N Tonawanda	LU6205
Pa	Rail & Ind. Equipt. Co. Inc.	Landisville	TW8-6711
Tex	Richmond Tank Car & Mfg. Co.	17011 Beaumont Hwy. Houston	GL8-0410
Wash	Puget Sound Fabricators, Inc.	3670 E Marginal Way, Seattle 4	MA2-1252
Can	R. F. Walsh Co. Ltd.	840 Lafleur Ave. Montreal 32, Que	DO6-5420

LITHIUM CORP. OF AMERICA, INC. 60 E 42 St, New York 17, NY

LITTELFUSE, INC. 1865 Miner St. Des Plaines, Ill VA4-1188

Cal	W. J. Purdy Co.	312 7th St. San Francisco	UN3-3300
Cal	A. M. Wood Co.	Box 1158, Arcadia	CU3-1201
Ga	F. C. Nickerson Co.	626 Medlock Rd. Decatur	ME6-2782
Ind	L. DeVoe Co.	4010 Washington Blvd. Indianapolis	AT3-1395
Mass	C. Segel Co.	1262 Commonwealth Ave. Boston 34	BE2-4334
Mich	R. C. Merchant Co.	18411 W McNichols, Detroit	KE5-6950
Mo	W. E. Fry & Co., Inc.	406 W 34th St. Kansas City 11	JE1-5236
NY	R. W. Mitscher Co., Inc.	487 Ellicott Sq. Bldg. Buffalo 3	WA2517
NY	S. H. Baum	70-15 Fleet St. Forest Hills 75	BO3-8101
Ohio	Neal Bear Corp.	3435 Streetsboro Rd. West Richfield	OL9-3031
Pa	S. A. Jeffries	105 Forrest Ave. Narberth	MO4-8500
Wash	D. M. Lee Co.	2517 2nd Ave. Seattle 9	MA3-5512

LITTLE, INC., ARTHUR D. 35 Acorn Pk, Cambridge 40, Mass

LITTON ENGINEERING LABS. Box 949, Grass Valley, Cal 273-6176

LITTON INDUSTRIES 336 N Foothill Rd. Beverly Hills, Cal CR4-7411

Cal	Litton Components Gr.	5873 Rodeo Rd. Los Angeles 16	UP0-8424
Cal	Litton Electron Tube Division	960 Industrial Rd. San Carlos	LY1-8411
DC	Litton Systems, Inc.	1625 I St. NW, Washington 6	EX3-4991
Mass	Litton Systems, Inc.	221 Crescent St. Waltham	TW3-4000
NY	Westrex Corp.	540 W 58th St. New York 19	JU2-3030
NY	Litton Systems, Inc.	375 Park Ave. New York	PL3-6060
Ohio	Litton Systems, Inc.	333 W 1st St. Dayton 2	BA3-3285
Utah	Litton Systems, Inc.	2211 W North Temple, Salt Lake City 10	DA6-8765

LOCK & CO., LTD. A. M. Union St, Oldham, Lancs, Eng

Eng	A. M. Lock & Co., Ltd.	Newborough Rd. Solihull, War.	
Eng	A. M. Lock & Co., Ltd.	65 Cumberland Rd. Bromley, Kent.	

LOCKHEED AIRCRAFT CORP. Box 551, Burbank, Cal TR7-2711

Cal	Lockheed-Avionics & Ind Prod Div	Box 22124, Los Angeles 22	OV5-7070
Cal	Lockheed Missiles & Space Div.	Box 504, Sunnyvale	RE9-4211
Cal	Lockheed Aircraft Corp.	3517 Marconi Ave. Sacramento 21	IV7-7818
DC	Lockheed Aircraft Corp.	1000 Conn Ave. NW, Washington 6	ME8-1726
Ga	Lockheed-Nuclear Prod Div.	Dawsonville	CE3-7104
Mass	Lockheed Aircraft Corp.	Box 304, Lexington	VO2-8430
Mo	Lockheed Aircraft Corp.	601 Angenette St. St. Louis 22	TO5-8400
Neb	Lockheed Aircraft Corp.	Box 767, Bellevue	BE1415
NJ	Lockheed-Stavid Div.	Plainfield	PL7-1600
Ohio	Lockheed Aircraft Corp.	131 N Ludlow St. Dayton	BA5-5135
Va	Lockheed Aircraft Corp.	209 Tanager Tr. Virginia Beach	GA8-1146

LOCKHEED NUCLEAR PRODUCTS 3272 Peachtree Rd. NE, Atlanta 5, Ga CE3-7104

Ala	Lockheed	Holiday Office Center, Huntsville	RS6-8727
DC	Lockheed	1000 Connecticut Ave. Washington	ME8-0344
Ill	Lockheed	840 N Michigan Ave. Chicago	WH4-2532
Kan	Lockheed	Hillside Sta. Wichita	MU6-8348
Mo	Lockheed	601 Angenette, St. Louis	TO5-8400
Neb	Lockheed	Bellevue	BE2180
NY	Lockheed	405 Lexington Ave. New York	OX7-7171
Ohio	Lockheed	131 N Ludlow St. Dayton	BA3-5136
Ohio	Lockheed	3101 Euclid Ave. Cleveland	EN1-2345

LOCKWOOD GREENE ENGINEERS INC 41 E 42nd St, New York 17, NY

Mass	Lockwood Greene Engineers, Inc.	316 Stuart St. Boston 16	
SC	Lockwood Greene Engineers, Inc.	Montgomery Bldg. Spartanburg	

LOFTUS CORP. PETER F. First Natl. Bank Bldg. Pittsburgh 22, Pa EX1-2280

LOGAN CLAY PRODUCTS CO. Box 698, Logan, Ohio EV5-2184

Ill	L. F. Owen Co.	111 W Washington St. Chicago	CE6-9850
Pa	Gratz-Kittanning Clay Prods. Div.	Worthing	AX7-3411

LOGAN EMERGENCY SHOWERS, INC. 136 N Maryland Ave. Glendale, Cal CI4-7261

Cal	Logan Manufacturing Co.	3030 Bridgeway Blvd. Sausalito	
Fla	R. S. Webbe Co.	878 160th Terr. NE, N Miami Beach	
Ill	Struck Equipment Co.	407 S Dearborn St. Chicago 10	
Md	W. J. Dunn	106 Oak Dr. Baltimore 28	
Mass	Pioneer Sales Co.	102 Merrimac St. Boston 14	
Mich	D. T. Randall & Co.	530 Livernois Ave. Detroit	
NY	F. U. Sylvester	240 E 30th St. New York 16	
Pa	J. L. Campbell Co.	709 Bethlehem Pike, Philadelphia 18	
Pa	Siegel & Sweeney Co.	636 Center Ave. Pittsburgh 29	
Tex	A. A. Sterling, Jr.	2611 Crocker St. Houston 6	
Va	W. Jennings Griggs	4807 Colley Ave. Norfolk 8	
Wis	G. Washington & Associates, Inc.	4517 N Frederick Ave. Milwaukee	

LOMA MACHINE MFG. CO., INC. 114 E 32 St. New York, NY MU5-6410

Cal	F. D. Ullmann	2158 Beach St. San Francisco	WE1-7446

LOUTHAN MFG. DIV. OF FERRO CORP. East Liverpool, Ohio FU5-1538

LUKENS STEEL CO. 401 Lukens Bldg. Coatesville, Pa DU4-6200

Cal	Lukens Steel Co.	475 Huntington Dr. San Marino	SY9-8793
Cal	Lukens Steel Co.	1299 Bayshore Hwy. Burlingame	DI2-3568
Ill	Lukens Steel Co.	332 S Michigan Ave. Chicago 4	WE9-3880
Mass	Lukens Steel Co.	20 Providence St. Boston 16	HU2-4051
NY	Lukens Steel Co.	11 N Pearl St. Albany 7	HE4-2157
NY	Lukens Steel Co.	4446 Main St. Buffalo 26	CI3077
NY	Lukens Steel Co.	233 Broadway, New York 7	BE3-1324
Ohio	Lukens Steel Co.	1720 Section Rd. Cincinnati 37	RE1-2441
Ohio	Lukens Steel Co.	55 Public Sq. Cleveland 13	MA1-9116
Pa	Lukens Steel Co.	429 4th Ave. Pittsburgh 19	GR1-1427

LUMATRON ELECTRONICS, INC. 116 County Courthouse Rd. New Hyde Park, NY FI7-3200

Cal	Instruments for Measurements	3455 Cahuenga Blvd. Hollywood 28	HO9-7294
Ill	W. F. Marsh & Associates, Inc.	244 Chicago Ave. Oak Park	EU6-2968
Mass	G. Gastenhofer & Associates	7 Wellington St. Waltham	TW4-9500
Minn	P. Lind Electronics Co.	9781 Western Ave. Circle Pines	SU4-3827
Mo	L. Mark Associates, Inc.	Box 8467, Kansas City 14	NI2-3313
NY	C. A. Winick Co.	926 Riverview Rd. Schenectady	ST5-8133
Ohio	Kilroy-Whelan Corp.	Box 222, Chagrin Falls	CH7-4892
Pa	Holdsworth & Co.	426 S Springfield Rd. Clifton Hts.	MA6-8900
Tex	Wallace Associates	Box 13203, Dallas 20	FL7-7080
Va	The Jay Co.	2420 Wilson Blvd. Arlington 1	JA4-6767
Wash	Paratech	9210 28th NW, Seattle	SU4-5447
Can	Instronics Limited	Box 51, Stittsville, Ont.	TA8-1253

LUNDELL & CO 7356 S Woodlawn Ave. Chicago 19, Ill HY3-3700

Ala	F. A. Thomas Co.	1806 Liberty St. Mobile	GR1-2752
Ariz	R. E. Coulson Co.	8050 N 3rd Ave. Phoenix	WI3-8935
Cal	Imco Equipment Co.	1980 Mountain Blvd. Oakland 11	OL5-6073
Colo	Process Equipment Co.	2548 W 29th Ave. Denver	GL5-4766
Conn	Benson Funk, Inc.	437 Cherry, W Newton 65, Mass	CE3-8950
Fla	B. Bregman	Box 4312, Miami 1	

Ill	Epco Services	888 E Northwest Hwy. Mt. Prospect	CL9-3066
Mo	G. Haynes Co.	406 W 34th St. Kansas City 11	JE1-0065
Ohio	S. J. Vereb	4619 E 93 St. Garfield Hgts. 25	VU5-6999
Okla	J. E. Dyer Co.	Box 1226, Tulsa	
Pa	Lanco Engr. Sales Co.	33rd & Arch, Philadelphia 4	EV6-8835
Tex	B. Wright Co.	4350 N Central Expwy. Dallas 6	TA4-6739

LUNKENHEIMER CO. ..... Beckman & Waverly, Cincinnati 14, Ohio .. WA1-3400

Cal	The Lunkenheimer Co.	1417 Georgia St. Los Angeles 15	RI7-0665
Cal	The Lunkenheimer Co.	420 Market St. San Francisco 11	DO2-4408
Ill	The Lunkenheimer Co.	1500 S Western Ave. Chicago 8	TA9-1818
Mass	The Lunkenheimer Co.	313 Mystic Ave. Medford 55	EX6-9610
NY	The Lunkenheimer Co.	730 - 3rd Ave. New York 17	OX7-8373
Pa	The Lunkenheimer Co.	3209 B St. Philadelphia 34	GA3-3300
Tex	The Lunkenheimer Co.	Box 1045, Houston 1	CA4-9763

LYDON BROS., INC. ..... 85 Zabriskie St. Hackensack, NJ

LYTLE CORP. ..... 1404 San Mateo SE, Albuquerque, NM AM8-3311

Ala	Lytle Corp.	79 Commerce St. Montgomery	AM9-4328
Cal	Lytle Corp.	4121 Redwood Ave. Los Angeles 66	EX1-5261
Cal	Lytle Corp.	3045 Rosecrans, San Diego 10	AC4-2705
Cal	Allied Research & Engrg. Div.	6916 Santa Monica Blvd. Hollywood	HO7-1251
Colo	Lytle Corp.	1327 Speer Blvd. Denver	KE4-5711
DC	Lytle Corp.	1625 Eye St. NW, Washington	EX3-7890
Fla	Lytle Corp.	Drawer V, Ft. Walton Beach	CH2-9550
Ill	Lytle Corp.	188 W Randolph St. Chicago	AN3-0333
Okla	Lytle Corp.	102 NW 3rd St. Oklahoma City	CE2-5859
Tex	Lytle Corp.	3800 San Pedro, San Antonio 12	PE4-5053
Utah	Lytle Corp.	455 E 2nd S St. Salt Lake City 11	DA2-2817

MCINTOSH EQUIPMENT CORP. WALKER, CROSWELLER DIV. 17-19 Park Row, New York 38, NY

McKEE & CO. ARTHUR G. .... 2300 Chester Ave. Cleveland 1, Ohio TO1-2300

DC	A. G. McKee & Co.	1507 M St. NW, Washington	AD4-6171
NY	A. G. McKee & Co.	30 Rockefeller Plaza, NY 20	CI6-6060
Tex	A. G. McKee & Co.	402 Gretel, Houston 22	CA7-7540
Can	G. McKee & Co. of Can, Ltd.	400 Terminal Bldg. Toronto 1	EM6-7787

McMILLAN INDUSTRIAL CORP. Brownville Ave. Ipswich, Mass EL6-2926

Ala	Specialized Electronics Corp.	529 N 18th St. Birmingham 5	FA4-1615
Cal	Western Control Equipment Co.	14615 Ventura Blvd. Sherman Oaks	TR3-3040
Ill	Carlson Electronic Sales	6677 N Northwest Hwy. Chicago 31	SP4-0277
Md	Engineering Associates	2125 Maryland Ave. Baltimore	HO7-1966
Mass	Dynamic Devices, Inc.	11 Albion St. Wakefield	CR6-5100
Mo	Thomson Engineering Service	8230 Forsyth Blvd. St. Louis 5	PA7-7705
Utah	Gates Co.	200 S Main St. Salt Lake City 1	EL9-1101
Fr	Sassoon Sopher, Inc.	630 5th Ave. New York	CI6-0670
Ger	Henley & Co., Inc.	202 E 4th St. New York 17	YU6-5544

M.B.L.E. ..... 80 Rue des Deux Eares, Brussels 7, Belg

MSA RESEARCH CORP. ..... Callery, Pa 3510

MACHLETT LAB., INC. ..... 1063 Hope St. Springdale, Conn FI8-7511

Cal	Machlett Laboratories, Inc.	2511 W 7th St. Los Angeles 57	DU5-0297
Cal	Machlett Laboratories, Inc.	2881 El Camino Real, Redwood City	EM8-8871
Ill	Machlett Laboratories, Inc.	510 N Dearborn St. Chicago 10	MI2-5316

MACK IRON WORKS CO. ..... Warren & Water Sts. Sandusky, Ohio MA6-3712

NY	Windsor Equipment Sales	120 Beekman St. New York	WO4-4330

MACKAY, INC., A.D. ..... 198 Broadway, New York 38, NY BA7-8532

MADEWELL CO. INC. ..... 381 Congress St. Boston 10, Mass LI2-9735

NY	Madewell Co. Inc.	611 Union St. Schenectady	FR7-1621

MAGNAFLUX CORP. ..... 7328 W Lawrence, Chicago 31, Ill UN7-8000

Cal	Magnaflux Corp.	2300 S Garfield, Los Angeles	RA3-8961
Mich	Magnaflux Corp.	2777 E Grand Blvd. Detroit 11	TR3-4343
NY	Magnaflux Corp.	25 W 43rd St. New York 36	BR3-1716
Ohio	Magnaflux Corp.	3317 Prospect Ave. Cleveland	HE2-0727
Pa	Magnaflux Corp.	5161 Brownsville Rd. Pittsburgh 36	TU2-3448
Tex	Magnaflux Corp.	2823 Manor Way, Dallas 35	FL2-2626

MAGNATRAN, INC. ..... 248 Schuyler Ave. Kearny, NJ WY1-6633

Md	Dickison Sales Co., Inc.	107 York Rd. Towson	VA3-0923
Mass	R. F. MacDowell Co.	58 Orient Ave. Melrose	NO5-6393
NJ	Dickison Sales Co., Inc.	302 Marlton Pike, Erlton	HA8-4086
Tex	J. A. Green Co.	7118 Envoy Ct. Dallas 7	FL1-9947
Tex	J. A. Green Co.	3400 Montrose Blvd. Houston	JA6-2959

MAGNETIC AMPLIFIERS DIV. SIEGLER CORP. 632 Tinton Ave. NY 55, NY CY2-6610

Cal	M. Beard	Box 96, El Segundo	EA2-1402
Colo	L. G. Rathburn	1414 18th St. Denver 2	TA5-3762
DC	J. W. Whitfield	6006 Onondago Rd. Wash 16	EX3-5640
Fla	C. W. Bringham	310 E Orlando Ave. Orlando	2-3747
Tex	Howell Sales Inc.	235 SE 14th St. Grand Prairie	AN2-0606

MAGNETIC INSTRUMENTS CO., INC. 637 Commerce St. Thorswood, NY RO9-5312

Cal	Wright Engineering Co.	126 25th Ave. San Mateo	FI5-3157
Cal	Wright Engineering Co.	180 E California Blvd. Pasadena 1	MU1-8488
Kan	Southern Ind. Electronics, Inc.	615 W 22nd St. Wichita	
Mass	Advanced Instruments Inc.	45 Kenneth St. Newton Highlands 61	DE2-8200

Mich	Tower Engineering Co.	19364 James Couzens Hwy. Detroit	
Mo	Southern Ind. Electronics Inc.	1101 Forest Wood, St. Louis 35	
Ohio	Tower Engineering Co.	3898 Linden Ave. Dayton 32	CL6-0931
Ohio	Tower Engineering Co.	2138 Lee Rd. Cleveland Heights 18	YE2-5900
Pa	E. S. Smith	2300 Woodlawn St. Harrisburg	
Tex	Southern Ind. Electronics Inc.	538 Braniff Bldg. Dallas	FL2-3901
Tex	Southern Ind. Electronics, Inc.	1419 Conrad Sauer Rd. Houston 43	
Can	Radionics, Ltd.	8230 Mayrand St. Montreal 9, Que.	RE6-5517

MAGNETIC RESEARCH CORP. 3160 W El Segundo Blvd. Hawthorne, Cal .. OS5-1171

Cal	The J. S. Heaton Co.	413 Lathrop St. Redwood City	
Cal	R. Brunson & Associates	7440 Girrard Ave. La Jolla	
Cal	Meredith Engineering Associates	735 E Green St. Pasadena	
NY	Dynamics Sales Corp.	157 Broad St. Red Bank, NJ	
Tex	Je-Joyce Co.	137 Walnut Hills Village, Dallas 20	

MAGNETIC SEAL CORP. ..... 166 Bay Spring Ave. West Barrington, RI .. CH5-4800

Cal	Haskel Seals	1236 S Central Ave. Glendale 4	CI4-8675
Md	Grid Sales, Inc.	Fidelity Bldg. Baltimore 1	VE7-7338
Mich	Warner Industrial Products	806 Holbrook St. Plymouth	GL3-1575
NY	C. M. Connor	Wolf Hollow Rd. Syracuse	HO8-6363
RI	J. R. Bugley	Box 83, Barrington	CH5-2700

MAGNETIC SHIELD DIVISION PERFECTION MICA CO. ..... 1322 N Elston Ave. Chicago 22, Ill EV4-2122

Cal	Perimuth Elec. Associates	5057 W Washington Blvd. Los Angeles	WE1-1041
Cal	Perimuth Elec. Associates	941 Charleston Rd. Palo Alto	DA1-5084
Conn	Abbott Allison Co.	Box 467, Meriden	BE7-9232
Fla	J. Neal Co.	3931 W 5th Terrace, Miami	HI4-1118
Md	D. Jones	31 E 21st St. Baltimore	BE5-5576
NJ	Brassler Associates	4808 Bergenline Ave. Union City	UN4-9577
Tex	Electro Mech. Associates	6115 Denton Dr. Dallas	FL2-3389
Can	R. S. Griffith	455 Mt. Stephen Ave. Westmount, Mont. Que	WE7-1167

MAGNETICS, INC. ..... Box 391, Butler, Pa. BU7-3787

Cal	Magnetics, Inc.	3841 E Colorado Blvd. Pasadena	MU1-7487
Ill	Withers, Ropek & Cahill	5439 W Division St. Chicago	AU7-7292
Ind	Rockwell Engineering	2121 E 45th St. Indianapolis	CL1-0453
Mass	Magnetics, Inc.	Tupelo Rd. Marshfield	FI6-2460
Mich	The Satullo Co.	4514 N Woodward Ave. Royal Oak	JO6-2376
NJ	Magnetics, Inc.	172 Dahlia Terr. Plainfield	PL7-0182
NY	R. F. Lamb Co.	3407 Delaware Ave. Buffalo	BE3757
NY	Magnetics, Inc.	3 Webster Ave. Hempstead	IV9-6254
NY	Magnetics, Inc.	15 Elm Pl. New Canaan, Conn	WO6-1583
Ohio	G. Drysdale	785 W Ohio Pike, Cincinnati	PL2-6683
Ohio	Martin-Rettger, Inc.	11955 Shaker Blvd. Cleveland	SW1-8787
Pa	W. H. Bollinger	Box 8088, Pittsburgh	LO1-2340

MAGNETROL, INC. ..... 2115 S Marshall Blvd. Chicago 23, Ill BU7-4000

Cal	Crown Berkely	2439 Riverside Dr. Los Angeles 39	NO5-1251
Colo	E & M Equipment Co.	2415 - 15th St. Denver	
DC	McLaney Engineering Co.	828 Mills Bldg. Washington	DI7-6329
Ga	L. M. Crowe Co.	111 Tuxedo Terr. NW, Atlanta	CE7-9209
Ill	Meters & Controls	444 N Lasalle St. Chicago 10	WH4-1448
Mass	Cochrane Steam Specialty Co.	55 Battery March, Boston 10	HA6-6447
NY	Energy Control Co.	5 Beekman St. New York 38	BA7-0457
Tex	Steel Engineering Products Co.	1035 E Side Rd. El Paso	FR2-5274
Tex	Industrial Equipment Co.	6831 Navigation Blvd. Houston 11	WA8-5421
Tex	Eggelhof Engineers	4331 Belmont Ave. Dallas	TA4-2505
Wash	Burhans-Sharpe Co.	1743 1st Ave. S, Seattle 4	MA9006

MAIN, INC., CHARLES T. ..... 80 Federal St. Boston 10, Mass HA6-6200

NC	C. T. Main, Inc.	129 W Trade St. Charlotte 2	FR5-1727

MALLINCKRODT CHEMICAL WORKS ..... 2nd & Mallinckrodt Sts. St. Louis 7, Mo ... CE1-8980

Cal	Mallinckrodt Chemical Works	3016 E 44th St. Los Angeles 58	LU3-2237
Ill	Mallinckrodt Chemical Works	307 N Michigan Ave. Chicago 1	ST2-1400
NY	Mallinckrodt Chemical Works	72 Gold St. New York 8	WO4-4900
Ohio	Mallinckrodt Chemical Works	3033 Vernon Pl. Cincinnati 19	AV1-6341
Pa	Mallinckrodt Chemical Works	101 N 33rd St. Philadelphia 4	EV6-4418
Can	Mallinckrodt Chemical Works, Ltd.	378 St. Paul St. W, Montreal 1, Que	VI9-4235
Can	Mallinckrodt Chemical Works, Ltd.	1270 Castlefield Ave. Toronto 19, Ont.	RU2-1109
For	Mallinckrodt Chemical Works	72 Gold St. New York 8	WO4-4900

MALLINCKRODT NUCLEAR CORP. 2nd & Mallinckrodt Sts. St. Louis 7, Mo .. CE1-8980

MALLORY & CO. INC. P. R. ..... 3029 E Washington St. Indpls 6, Ind ME6-5353

Cal	P. R. Mallory & Co. Inc.	9121 E. Garvey Ave. Rosemead	CU3-7991
Colo	Koether-Cox Co.	1325 S Inca St. Denver 23	PE3-5561
DC	P. R. Mallory & Co. Inc.	1401 K St. NW, Washington 5	EX3-0090
Ga	Grady Duckett Sales Co.	26 E Andrews Dr. Atlanta	CE3-5308
Ill	P. R. Mallory & Co. Inc.	3672 Milwaukee Ave. Chicago 41	KI5-1025
Mass	P. R. Mallory & Co. Inc.	118 Main St. Watertown	WA4-2214
Mo	P. R. Mallory & Co. Inc.	215 N Meramec Ave. St Louis 5	FA7-8695
NY	P. R. Mallory & Co. Inc.	545 Cedar La. Teaneck	TE6-4702
Ohio	P. R. Mallory & Co. Inc.	5504 State Rd. Cleveland 34	SH1-1090
Pa	P. R. Mallory & Co. Inc.	4343 River Dr. E. Philadelphia 29	VI4-8891
Wash	D. H. Burcham Co.	422 1st Ave. W. Seattle 99	AT4-7297
Wis	P. R. Mallory & Co. Inc.	4826 W Forest Home Ave. Milwaukee 19	EV3-2720

MANCO MFG. CO. ..... Bradley, Ill WE3-8231

Ala	F. Middleton Co. Inc.	1907 Cahaba Rd. S, Birmingham 13	TR9-2617
Cal	The Osenkop Co.	1455 Greenwich St. San Francisco 9	PR5-7246
Colo	R. B. Moore, Inc.	1921 Blake St. Denver 2	CH4-2969

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Idah	D. A. Olson Co.	420 E 45th, Seattle 5, Wash.	ME3-4135
Ill	The J. W. Harvey Co.	8000 W 47th St. Lyons	HI7-8204
Mich	M. B. Savage Co.	20818 Harper Ave. Detroit 36	TU6-1600
Mo	A. M. McIntyre	1110 S Brentwood Blvd. St. Louis 17	PA1-1139
NY	R. J. B. Kelly Co.	519 Main St. E Orange, N.J.	OR6-0714
Ohio	E. B. Cleavenger & Associates	518 Hulman Bldg. Dayton 2	BA2-4522
Ohio	Shields Equipment Co.	13409 Lakewood Hts. Blvd. Cleveland 7	OR1-3240
Pa	Follambee Industrial Sales Co.	Box 7185, Pittsburgh 13	MA1-6663
Can	Vickers-Warnick Ind. Sup.	1869 Main St. E, Hamilton, Ont	LI9-1392
	MANESTY MACHINES LTD.	**Evans Rd. Liverpool 24, Eng.**	**HU1972**
Ill	Thomas Engineering Co., Inc.	9257 N Laramie Ave. Skokie	OR5-5588
NJ	J. V. Roy, Jr.	75 Glen Ct. North Plainfield	PL4-7987
	MANN MFG. CO., INC.	**229 Burlington Rd. Clarendon Hills, Ill**	**FA3-0091**
	MANSFIELD & CO., LTD. FRANK	**62 Hamilton Sq. Birkenhead, Chesh, Eng**	
	MANSON LABORATORIES, INC.	**375 Fairfield Ave. Stamford, Conn**	**DA5-1391**
Cal	Perlmuth Electronic Assoc.	6057 W Washington Blvd. Los Angeles 16	WE1-1041
Colo	Kelley Enterprises	336 E 4th St. Loveland	NO7-1376
Ga	E. G. Holmes & Assoc.	4969 Roswell Rd. NE, Atlanta 5	BL5-6660
Md	K & L Assoc.	817 St. Paul St. Baltimore	SA7-8360
Mass	G. Gostenhofer & Assoc. Inc.	7 Wellington St. Waltham 54	TW4-9500
NY	DB Assoc.	3307 Erie Blvd. E, DeWitt 14	GI6-0220
Can	Electrodesign	9124 St. Lawrence Blvd. Montreal 11	DU9-5914
Jap	Industrial Imports Limited	Box 1271-Central P.O. Tokyo	
For	B. Freudenberg, Inc.	50 Rockefeller Plaza, New York 20	PL7-9130
	MARCONI'S WIRELESS TELEGRAPH CO. LTD.	**Chelmsford, Essex, Eng**	**CM3221**
NY	Marconi's Wireless Tele Co Ltd.	750 3rd Ave. New York 17	YU6-9855
	MARION LABS., INC.	**Box 963, Kansas City, Mo**	**EM3-3500**
	MARITIME CHEMICAL & REPAIR CORP.	**423 Hamilton Ave. Brooklyn 32, NY**	**SO8-3366**
	MARKEL & SONS, L. FRANK	**School House Ln. Norristown, Pa**	**BR2-8960**
	MARLEY CO.	**222 W Gregory Blvd. Kansas City 14, Mo**	**EM1-2222**
Cal	The Marley Co.	924 E Main St. Alhambra	AT1-8892
Cal	The Marley Co.	420 Market St. San Francisco 11	DO2-2522
DC	The Marley Co.	2001 Wisconsin Ave. NW, Washington 7	FE7-3477
Ill	The Marley Co.	111 W Washington St. Chicago	RA6-1926
Kan	The Marley Co.	3001 Fairfax Trafficway, Kansas City 15	FI2-1688
NY	The Marley Co.	75 West St. New York City 6	BO9-0355
Ohio	The Marley Co.	6901 Wooster Pike, Cincinnati 27	BR1-3670
Pa	The Marley Co.	12 S 12th St. Philadelphia 3	MA7-7958
Tex	The Marley Co.	2132 Welch, Houston 19	JA6-2591
	MARQUARDT CORP. NUCLEAR SYSTEMS DIV.	**16555 Saticoy St. Van Nuys, Cal**	**ST1-2121**
DC	The Marquardt Corp.	1729 H St. NW, Washington 6	EX3-1277
Ohio	The Marquardt Corp.	32 N Main St. Dayton 2	BA4-8351
	MARSH INSTRUMENT CO. DIV. COLO OIL & GAS CORP.	**3501 Howard St. Skokie, Ill**	**OR3-4300**
Mass	Marsh Instrument Co.	77 Parkingway, Quincy	PR3-9161
NY	Marsh Instrument Co.	133 Lincoln Ave. Pelham	PE8-3955
Ohio	Marsh Instrument Co.	14237 Detroit Ave. Cleveland	AC1-6667
Pa	Marsh Instrument Co.	512 West Ave. Jenkintown	TU7-1575
Tex	Marsh Instrument Co.	1121 Rothwell, Houston	CA8-2770
	MARSH & MCLENNAN, INC.	**231 S LaSalle St. Chicago 4, Ill**	
	MARSHALL OF CAMBRIDGE ELECTRONICS LTD.	**The Aerodrome, Cambridge, Eng**	**CA56291**
	MARSHALL-HOWLETT, LTD.	**44 Tower Hill, London, EC3, Eng**	**RO1461**
	MARTIN CO. NUCLEAR DIV.	**Mail G-3037, Baltimore 3, Md**	**MU7-3800**
Ala	The Martin Co.	Elec. Ser. Center Bldg. Huntsville	JE6-0786
Cal	The Martin Co.	6320 W 89th St. Los Angeles	OR8-2186
Colo	The Martin Co.	12250 S Highway 74, Denver	PY4-5211
Fla	The Martin Co.	5837 S Orange Blossom Trail, Orlando	CH1-2411
Ill	The Martin Co.	140 S Dearborne St. Chicago	DE2-3426
Mass	The Martin Co.	9 Mercer Rd. Natick	OL5-1600
NM	The Martin Co.	Holloman A. F. Base, Holloman	GR3-6511
NY	The Martin Co.	405 Lexington Ave. New York	YU6-7385
Ohio	The Martin Co.	215 Euclid Ave. Cleveland	PR1-4284
Ger	The Martin Co.	66 Kaiser-Friedrich-Ring Str. Wiesbaden	61816
	MARTINDALE ELECTRIC CO.	**Box 617, Edgewater Br. Cleveland 7, Ohio**	**LA1-8567**
	MARVEL ENGINEERING CO.	**7227 N Hamlin Ave. Chicago 45, Ill**	**JU8-6023**
	MARVEL-SCHEBLER PRODUCTS DIV. BORG-WARNER CORP.	**2195 S. Elwin Rd. Decatur, Ill**	**428-4631**
	MARYLAND ALLOYS CORP.	**5245 Fairlawn Ave. Baltimore 15, Md**	**MO4-2498**
	MARYLAND SHIPBUILDING & DRYDOCK CO.	**Box 537, Baltimore 3, Md**	
Colo	L. A. Christopher Co.	1715 York St. Denver 6	KE4-1338
Ill	Piepenbrink & Schoonhoven	53 W Jackson Blvd. Chicago 4	WA2-8036
Mich	Bradbury Kenrick Assoc.	2842 W Grand Blvd. Detroit 2	TR3-8520
Minn	Northwestern Power Equip. Co.	1951 University Ave. St. Paul 4	MI6-9675
Mo	Midwestern Power Equip. Co.	1214 W 47th St. Kansas City 12	VA1-7507
Mo	Midwest Machinery Co.	26 Hanley Industrial Ct. St. Louis 17	MI7-3250
Ohio	H. W. Kaiser Co.	1836 Euclid Ave. Cleveland 15	CH1-2863
Ohio	Hare Equipment Co.	1720 Section Rd. Cincinnati 37	ME1-4703
Pa	J. L. Souser & Associates	Box 654, York	YO2-0217
Tex	Bernhard Engrg. Sales Co.	309 Meadows Bldg. Dallas 6	EM3-4301
Tex	The Tennant Co.	Gulf Bldg. Houston	CA8-8454
PR	R. I. Gil	1209 Ponce de Leon Ave. Santurce 1	SA2-2929
	MASON-NEILAN DIV. OF WORTHINGTON CORP.	**Norwood, Mass**	**NO7-4600**
Ala	Mason-Neilan	10 Office Park, Mountain Brook, Birmingham 9	TR1-4363
Cal	Mason-Neilan	2822 E Olympic Blvd. Los Angeles 23	AN1-0341
Ga	Mason-Neilan	3272 Peachtree Rd. NE, Atlanta 9	CE7-5501
Ill	Mason-Neilan	64 Old Orchard, Skokie	OR6-4114
NJ	Mason-Neilan	366 Bellevue Ave. Upper Montclair	PI6-0616
NY	Mason-Neilan	9 E Genesee St. Skaneateles	OV5-5791
NY	Mason-Neilan	375 Park Ave. New York 22	EL5-1525
Pa	Mason-Neilan	6908 Market St. Upper Darby	GR6-7141
Pa	Mason-Neilan	3833 Willow Ave. Pittsburgh 34	LO1-7511
Va	Mason-Neilan	6002 W Broad St. Richmond 26	AT8-6045
Wis	Mason-Neilan	116 S Appleton St. Appleton	RE3-7417
	MASON, SHAVER & RHOADES, INC.	**Box 551, Irwin, Pa**	**UN3-1000**
	MASSACHUSETTS COMMISSION ON ATOMIC ENERGY	**150 Causeway St. Boston, Mass**	
	MAST DEVELOPMENT CO., INC.	**2212 E 12th St. Davenport, Iowa**	**323-9729**
	MASTER BUILDERS CO.	**2490 Lee Blvd. Cleveland 18, Ohio**	**ER1-5000**
	MATERIAL-PRUFSTELLE	**Robert-Koch-Str. 26, Koln-Lindenthal, Ger**	**41 85 94**
	MATERIAL SERVICE DIV. GEN. DYNAMICS CORP.	**300 W Washington St. Chicago 6, Ill**	**FR2-3600**
	MATTHEW LABORATORIES	**3344 Fort Independence St. NY 63, NY**	**KI8-1011**
	MATTHEWS & YATES LTD. CYCLONE WKS.	**Swinton, Manchester, Eng**	**SW2273**
Eng	Matthews & Yates, Ltd.	135 Rye Ln. Peckham, London SE 15	NE6571
Eng	Matthews & Yates, Ltd.	Digbeth, Birmingham 5	MI7284
Eng	Matthews & Yates, Ltd.	22 Queen Sq. Leeds, 2	LE2-2121
Eng	Matthews & Yates, Ltd.	The Lansdowne, Bournemouth	BO2-2493
Scot	Matthews & Yates, Ltd.	26 Blythswood Sq. Glasgow, C2	CI4872
Wls	Matthew & Yates, Ltd.	2 St Andrews Pl. Cardiff, Wales	CA2-7869
	MAX ARC LTD.	**44 Terrace Rd. Walton-on-Thames, Surrey, Eng**	**20497/8**
	MAXON CONSTRUCTION CO.	**2600 Far Hills Ave. Dayton 19, Ohio**	**AX3-3131**
	MAXSON CORP. W. L. INSTRUMENTS DIV.	**475 10th Ave. New York 18, NY**	**LO5-1900**
	MECHANICAL EQPT. CO., INC.	**861 Carondelet St. New Orleans 12, La**	**MA7271**
	MEEHANITE METAL CORP.	**714 North Ave. New Rochelle, NY**	**NE2-3840**
Cal	Lincoln Foundry Corp.	Los Angeles	
Cal	Vulcan Foundry Co.	Oakland	
Conn	Farrel-Birmingham Co., Inc.	Ansonia	
Ga	Georgia Iron Works	Augusta	
Ill	Greenlee Foundry Co.	Chicago	
NY	Pohlman Foundry Co. Inc.	Buffalo	
Ohio	Dayton Casting Co.	Dayton	
Pa	Johnstone Foundries, Inc.	Grove City	
Pa	Rosedale Foundry & Machine Co.	Pittsburgh	
Tenn	Ross-Meehan Foundries	Chattanooga	
Tex	Oil City Iron Works	Corsicana	
Wash	Washington Iron Works	Seattle	
	MEILLON, INC., GEORGE T.	**132 Nassau St. New York 38, NY**	**CO7-1615**
	MENLO RESEARCH LABORATORY	**1627 Bay Rd. East Palo Alto, Cal**	**DA3-4121**
	MERCK & CO., LTD. RESEARCH CHEMICALS DEPT.	**560 De Courcelle St. Montreal 3, PQ, Can**	
	MERCOID CORP.	**4201 Belmont Ave. Chicago 41, Ill**	**PE6-2100**
NY	Mercoid Corp.	205 E 42nd St. New York	MU4-5071
Pa	Mercoid Corp.	828 Davisville Rd. Willow Grove	OL9-0550
	MERIAM INSTRUMENT CO.	**10920 Madison Ave. Cleveland 2, Ohio**	**AT1-1100**
Cal	C. Meriam Co.	5017 Telegraph Rd. Los Angeles 22	AN9-8271
Ill	P. B. Shannon	10336 S Western Ave. Chicago 43	BE3-3392
Mich	Smith Instrument & Equip. Co.	7140 E. Davison Ave. Detroit 12	TW1-6500
Mo	C. F. Gast Co.	6110 Gravesche Ave. St. Louis 20	EV3-0750
NJ	Blake Equipment Corp.	409 Grand Ave. Englewood	LO7-4252
Pa	Maleson Co.	225 N 32nd St. Philadelphia 4	EV2-6400
	MERZ and McLELLAN	**Milburn, Esher, Surrey, Eng**	
	MESSENGER BEARINGS, INC.	**730 N Easton Rd. Glenside, Pa**	
	METAL BELLOWS CORP.	**685 Mica Ln. Wellesley, Mass**	**CE5-1940**
Cal	Metal Bellows Corp.	209765 Knapp St. Chatsworth	

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	METAL DIFFUSIONS, LTD.	**292 Watton Rd. Isleworth, Mdx, Eng**	**IS7081**
Eng	Mitchell Engineering, Ltd.	The Bridge, Peterborough, Northants	PE4821
Eng	Union Oxide & Chem. Co. Ltd.	Dunster House 37, Mincing Ln. E. C. 3	MA8021
	METAL HYDRIDES, INC.	**12-24 Congress St. Beverly, Mass**	**WA2-1875**
	METAL & PIPELINE ENDURANCE LTD.	**30 London Rd. Knebworth, Herts., Eng**	
NY	Haywood-Fabbri Corp.	420 Lexington Ave. New York 17	MU5-3298
	METAL & PLASTIC COMPONENTS LTD.	**Montgomery St. Birmingham 11, Eng**	**VI4061**
	METAL & THERMIT CORP.	**Rahway Ave. Rahway, NJ**	**FU1-3000**
Cal	Metal & Thermit Corp.	1936 E Maple Ave. El Segundo	OR5-5166
Ga	Metal & Thermit Corp.	565 Western Ave. NW, Atlanta	JA5-9415
Ind	Metal & Thermit Corp.	415 E 151st St. East Chicago	EX5-3200
Ky	Metal & Thermit Corp.	Box 150, Carrollton	CA732-4411
Mich	Metal & Thermit Corp.	1700 E 8 Mile Rd. Detroit 20	JO4-5740
Tex	Metal & Thermit Corp.	701 N San Jacinto St. Houston 2	CA3-4000
	METALAB EQUIPMENT CO.	**270 Duffy Ave. Hicksville, NY**	
Ala	J. A. Head & Co.	2013 1st Ave. Birmingham	AL1-8153
Cal	W. A. Reed	726 Santana Dr. Newport Beach	OR3-0082
Ill	P. Cooper	108 N State St. Chicago 2	AN5-4945
Md	A. B. Wigley Corp.	Box 864, Annapolis	CO3-9231
Mass	J. K. Seekings	34 Linda Ave. Saxonville Sta. Framingham	TR2-1985
Mo	W. Bruce & Co.	4903 Diemar Blvd. St. Louis 8	FO7-7009
Mont	C. C. Winburn, Inc.	446 E 109th Ave. Denver 29, Colo	AT8-1467
NY	J. E. Dumas & Co.	92 Central Ave. Albany	HK6-0711
Ohio	G. A. Elson	Box 114, Sta. H, Toledo 12	GR4-7631
Pa	M. C. Wilson	530 Street Rd. Southampton	EL7-1243
W Va	B. Preiser Co.	Box 5118, Charleston	DI3-5515
	METALLIZING EQUIPMENT CD. LTD.	**Chobham, Woking, Surrey, Eng**	**CH590**
Eng	Metallizing Equip. Co. Ltd.	58-60 Victoria St. London, S.W.1	VI4146
Eng	Metallizing Equip. Co. Ltd.	32 Deansgate, Manchester	BL3851
Eng	Metallizing Equip. Co. Ltd.	Stephenson Pl. Birmingham 2	MI1214
Eng	Metallizing Equip. Co. Ltd.	69 Albion St. Leeds	LE35972
Eng	Metallizing Eqpt. Co. Ltd.	14 Neville St. Newcastle-on-Tyne	NE20945
Eng	Metallizing Equip. Co. Ltd.	9 St. James' Row, Sheffield 1	SH21565
Scot	Metallizing Eqpt. Co. Ltd.	235 Bath St. Glasgow, C.2	CI7977
	METALLO GASKET CO.	**16 Bethany St. New Brunswick, NJ**	**KI5-7223**
	METALS DISINTEGRATING CO. DIV. AMERICAN-MARIETTA CO.	**Box 290, Elizabeth 8, NJ**	**EL3-4600**
Cal	L. W. Houy	1271 S Boyle Ave. Los Angeles 23	AN9-5333
Ill	J. A. McKinley	10918 S Western Ave. Chicago 43	HI5-1606
	METERING PUMPS LTD.	**21 The Mall, Ealing, London W5, Eng**	
	METERS, INC.	**5353 N Keystone Av. Indapls 20, Ind**	**CL5-3570**
	METHODE MFG. CORP.	**7447 W Wilson Ave. Chicago 31, Ill**	
	METRIX INSTRUMENTS, LTD.	**54 Victoria Rd. Surbiton, Surrey, Eng**	**EL2776**
	METRONIX, INC.	**75 Wilson Mills Rd. Chesterland, Ohio**	**HA3-4440**
Cal	Electronic Eng. Associates, Ltd.	1295 Laurel St. San Carlos	LY3-2189
Cal	Hafstrom-Thompson Associates	7460 Girard Ave. La Jolla	GL4-3985
Ill	R. E. Stemm, Inc.	5681 W Lake St. Chicago 44	ES9-2700
Mass	Raytronics, Inc.	2 Garden Rd. Marblehead	NE1-1857
Mass	Raytronics, Inc.	175 State St. Springfield	RE3-2867
Minn	R. E. Stemm, Inc.	123 S 3rd St. Minneapolis 1	FE5-7172
NY	The Industron Co.	200 E Genesee St. Syracuse 2	HA2-2064
NY	The Industron Co.	300 Northern Blvd. Great Neck	HU7-2625
Ohio	Kilroy-Whelan Corp.	Box 222, Chagrin Falls	CH7-4032
Tex	Carey-Wolf Co.	Box 6072, Fort Worth	FE8-1701
Wash	Paramount Technical Agencies	9210-28th St. NW, Seattle 7	SU4-6447
Wash	Paramount Technical Agencies	S 121 Monroe St. Spokane 4	TR9-8918
	METTLER INSTRUMENT CORP	**Box 100, Princeton, NJ**	**WA1-2200**
	MICA INSULATOR DIV. MMM	**797 Broadway, Schenectady 1, NY**	**FR4-4191**
Cal	Minnesota Mining & Mfg. Co.	6023 S Garfield Ave. Los Angeles 22	BA3-5641
Cal	Minnesota Mining & Mfg. Co.	320 Shaw Rd. S San Francisco	PL5-0800
Ga	Minnesota Mining & Mfg. Co.	732 Ashby St. NW, Atlanta 18	TR6-4491
Ill	Minnesota Mining & Mfg. Co.	6850 Harlem Ave. Bedford Park	GL8-2200
Mass	Minnesota Mining & Mfg. Co.	1330 Centre St. Newton Center 59	DE2-9810
Minn	Minnesota Mining & Mfg. Co.	367 Grove St. St. Paul 1	PR6-8511
NJ	Minnesota Mining & Mfg. Co.	700 Grand Ave. Ridgefield	WH3-6700
NY	Minnesota Mining & Mfg. Co.	330 Greene St. Buffalo 6	BA5214
Ohio	Minnesota Mining & Mfg. Co.	12200 Brookpark Rd. Cleveland 30	CL2-4300
Pa	Minnesota Mining & Mfg. Co.	5698 Rising Sun Ave. Philadelphia 20	PI2-0200
Tex	Minnesota Mining & Mfg. Co.	2121 Santa Anna Ave. Dallas 28	DA7-7311
Wash	Minnesota Mining & Mfg. Co.	3663 1st Ave. S, Seattle 4	MU2-5550
	MICHIGAN CHEMICAL CORP. RARE EARTHS & THORIUM DIV.	**St. Louis, Mich**	**4511**
Ga	Michigan Chem. Corp.	Barnett Dr. Savannah	EL5-5186
NY	Michigan Chem. Corp.	230 Park Ave. New York	MU3-5480
Tex	Michigan Chem. Corp.	1306 Walton Dr. College Station	VI6-7315
	MICO INSTRUMENT CO.	**80 Trowbridge St. Cambridge 38, Mass**	

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	MICROCHEMICAL SPECIALTIES CO.	**1825 Eastshore Hwy. Berkeley 10, Cal**	**TH3-1282**
Mass	Bonus Laboratory	Box 66, North Andover	
	MICRO CIRCUITS CO.	**New Buffalo, Mich**	**1163**
	MICRO SWITCH DIV. MINNEAPOLIS-HONEYWELL REGULATOR CO.	**Chicago & Spring Sts. Freeport, Ill**	**AD2-1122**
Ariz	Micro Switch	4125 N 7th Ave. Phoenix	CR4-7791
Cal	Micro Switch	6620 Telegraph Rd. Los Angeles 22	BA3-7104
Colo	Micro Switch	2130 S Dahlia St. Denver 4	EK6-9419
Ill	Micro Switch	7350 N Lincoln Ave. Chicago 30	IR8-9290
Mass	Micro Switch	1230 Soldiers Field Rd. Boston 35	AL4-3939
Mich	Micro Switch	13831 Plymouth Rd. Detroit 27	WE3-6577
Minn	Micro Switch	2753 4th Ave. S, Minneapolis 8	PE2-5225
Mo	Micro Switch	2146 Hampton Ave. St. Louis 10	MI7-1116
NY	Micro Switch	24-30 Skillman Ave. Long Island City 1	ST6-5005
NC	Micro Switch	212 Greystone Rd. Charlotte 9	JA3-3020
Tex	Micro Switch	6000 N Central Expwy. Dallas 6	EM1-6227
Wash	Micro Switch	401 Pontius Ave. Seattle 9	MU2-4580
	MIDDLE WEST SERVICE CD	**20 N Wacker Dr. Chicago, Ill**	
	MID-EASTERN ELECTRONICS INC.	**32 Commerce St. Springfield, NJ**	**DR6-7130**
Cal	G. H. Vaughan Co.	2366 E Foothill Blvd. Pasadena	SY5-4420
Cal	W. Theimer & Co.	405 S Sunnyvale, Sunnyvale	RE9-6460
Colo	Longstreet Smith Assoc., Inc.	1013 15th St. Denver 2	KE4-5091
Conn	M. S. Coldwell, Inc.	289 Fairfield Ave. Hartford 6	JA2-5632
Ill	K. W. Meyers Co.	3713 N Oliphant Ave. Chicago 31	IP4-6440
Mich	J. L. Peirce Co.	16666 James Couzens Hwy. Detroit 21	UN2-2571
NJ	J. Williams Associates	50 Main St. Orange	OR5-7199
NC	The Candor Co.	2080 Beech St. Winston-Salem	PA2-1432
Pa	J. E. Cuesta	Box 925, Paoli	NI4-6020
Pa	L. Dietrich Co.	703 Clairton Blvd. Pittsburgh 36	TU1-2228
Wash	Eicher & Co.	5 W Harrison St. Seattle 99	AT4-1811
Can	Willer Engineering & Sales Co.	676 Richmond St. W, Toronto, Ont.	EM3-7207
	MIDLAND HEATING & VENTILATION CO. LTD.	**Bedford Rd. Birmingham 11, Eng**	**VI3781**
Eng	A. Palmer	69 Albemarle Rd. Beckenham, Kent	BE1508
Eng	K. Smith	2 Catherine Rd. Romily, Stockport	WO3611
Eng	B. Wade	20 Judith Dr. Evington, Leicester	LE3256
Scot	V. A. Flynn	105 Stonyhurst St. Glasgow NB	PO8872
	MIDWEST PIPING CO., INC.	**1450 S 2nd St. St. Louis 4, Mo**	**MA1-8300**
Cal	Midwest Piping Co. Inc.	520 Anderson St. LA 33	AN8-6733
Fla	Midwest Piping Co. Inc.	2103 Le Jeune Rd. Coral Gables 34	HI8-0158
Ga	Midwest Piping Co. Inc.	72 11th St. NE, Atlanta 9	TR4-6114
Ill	Midwest Piping Co. Inc.	79 W Monroe St. Chicago 3	FR2-1868
Mass	Midwest Piping Co. Inc.	426 1st St. South Boston 27	AN8-2110
NY	Midwest Piping Co. Inc.	6 Church St. New York 6	CO7-5213
Ohio	Midwest Piping Co. Inc.	8955 Lake Ave. Cleveland 2	AT1-3003
Okla	Midwest Piping Co. Inc.	9 E 4th St. Tulsa 3	LU4-1615
Pa	Midwest Piping Co. Inc.	1007 Park Bldg. Pittsburgh 22	CO6-1263
Tex	Midwest Piping Co. Inc.	11325 Todd Rd. Houston 2	OV2-0463
	MIDWESTERN INSTRUMENTS	**Box 7509, Tulsa 18, Okla**	**HA7-1111**
Cal	Space Data, Inc.	8921 Sepulveda Blvd. Los Angeles	OR8-5279
DC	P. R. Jodon, Inc.	8510 Beech Tree Rd. Washington 14	EM5-1515
Ga	E. C. Laski & Associates	1328 1/2 Gordon St. SW, Atlanta	PL3-8627
Mass	Technical Instruments Inc.	90 Main St. Reading	RE2-3930
NJ	Tek-Sci, Inc.	54 Rt. 17, Paramus	HU9-7210
NM	R. K. Oglesbee & Associates	1403 Indian Wells Rd. Alamogordo	HE7-2562
NY	Advanced Components Inc.	119 Luther Ave. Liverpool	GR2-7886
Ohio	M. P. Odell Co.	26614 Center Ridge Rd. Westlake	TR1-8050
Tex	Trinity Materials	600 Bailey St. Ft. Worth	ED5-4774
	MILES ELECTRONICS, LTD.	**Shoreham Arpt. Shoreham, Sussex, Eng**	
Ital	C.O.M.E.T.	Casella Post N1361, Trieste	29.318
	MILES HIVOLT LTD.	**Old Shoreham Rd. Shoreham-by-Sea, Sussex, Eng.**	**SH4301**
	MILLER & SON, INC., FRANKLIN P.	**36 Meadow St. East Orange 36, NJ**	**OR3-4522**
	MILLIPORE FILTER CORP.	**Bedford, Mass**	
Cal	H. A. Aronson	Box 226, Woodland	ST5-1534
	MINE SAFETY APPLIANCES CO.	**201 N. Braddock Ave. Pittsburgh 8, Pa**	**CH1-5900**
Cal	J. S. Moore	115 W 25th St. Los Angeles 7	RI7-9567
Cal	K. S. Butler	1255 Howard St. San Francisco 3	HE1-3870
Ga	D. F. West	1343 Spring St. NW, Atlanta 9	TR4-6278
Ill	C. R. Dever	144 W Superior St. Chicago 10	MI2-3875
Mich	H. N. Gruber	19725 Ralston, Detroit 3	TO8-5855
Mo	J. S. Miller, Jr.	2803 Cherry St. Kansas City 8	BA1-9787
NJ	C. H. Mehaffey	1100 Globe Ave. Mountainside	CO7-6297
Ohio	J. W. McCrackin	17901 Euclid Ave. Cleveland 12	KE1-9600
Pa	E. C. Brainerd	1614 Summer St. Philadelphia 3	LO4-1216
Pa	E. F. Hahnfeldt	7515 Penn Ave. Pittsburgh 8	CH1-6332
Tex	W. H. Gates	1630 Oak Lawn Ave. Dallas 7	RI7-4208
Wash	R. A. Pohl	71 Columbia St. Seattle 4	MA2-6622
	MINERALS REFINING CO.	**Box 367, Murray, Utah**	**AM6-3548**
	MINIATURE PRECISION BEARINGS, INC.	**Precision Pk. Keene, NH**	**EL2-0310**
Cal	Miniature Precision Bearings, Inc.	8021 S Bellanca Ave. Los Angeles 45	

Cal	MPB, Inc.	1291 Marshall St. Redwood City	EM9-4818
Ill	MPB, Inc.	2701 W Howard, Chicago 45	SH3-4917
Iowa	MPB, Inc.	417 1st Ave. SE, Cedar Rapids	EM3-8121
Md	MPB, Inc.	18 Baltimore-Annapolis Blvd. Glen Burnie	SO1-2450
Mass	MPB, Inc.	419 Boylston St. Boston 16	CO7-8989
Minn	MPB, Inc.	10533 Beard Ave. S, Minneapolis 20	TU1-8333
NY	Syracuse Bearings Corp.	2275 Fillmore Ave. Buffalo 14	UN5585
NY	MPB, Inc.	18 Purdy Ave. Rye	WO7-5700
Pa	MPB, Inc.	26 W Chester Pk. Havertown	SU9-9533
	MINIMAX CO.	**5905 N Clark St. Chicago 26, Ill**	**LO1-2496**
	MINN-HONEYWELL REG. CO. BOSTON DIV. 40 Life St. Boston 35, Mass		**AL4-5290**
Cal	M-H Regulator Co.	6620 Telegraph Rd. Los Angeles 22	PA8-7311
Colo	M-H Regulator Co.	1600 W 13th Ave. Denver 4	AC2-4868
Ga	M-H Regulator Co.	1415 Howell Mill Rd. NW, Atlanta	TR5-9561
Ill	M-H Regulator Co.	7350 N Lincoln Ave. Chicago 80	OR4-9770
Minn	M-H Regulator Co.	621 E Hennepin Ave. Minneapolis 14	FE8-8881
NY	M-H Regulator Co.	24-30 Skillman Ave. LIC 1	EX2-4300
Ohio	M-H Regulator Co.	1900 Superior Ave. Cleveland 14	TO1-0400
Ore	M-H Regulator Co.	2600 SE Belmont, Portland 14	BE5-8411
Pa	M-H Regulator Co.	3345 W Hunting Park Ave. Phila 32	BA6-2400
Tex	M-H Regulator Co.	6000 N Central Expwy. Dallas 1	EM8-6401
	MINN-HONEYWELL REG. CO. CONTROL DEVICE DIV. 2753 4th Ave. S, Maple 8, Minn.		**FE2-5225**
Cal	M-H Regulator Co.	6620 Telegraph Rd. Los Angeles 22	RA3-6611
Colo	M-H Regulator Co.	2130 S Dahlia, Denver 22	SK6-8892
Ga	M-H Regulator Co.	1415 Howell Mill Rd. NW, Atlanta	TR5-9561
Ill	M-H Regulator Co.	7350 N Lincoln Ave. Chicago 80	OR4-9770
Minn	M-H Regulator Co.	621 E Hennepin Ave. Minneapolis 14	FE8-8881
NY	M-H Regulator Co.	24-30 Skillman Ave. LIC 1	EX2-4300
Ohio	M-H Regulator Co.	1900 Superior Ave. Cleveland 14	TO1-0400
Ore	M-H Regulator Co.	2600 SE Belmont, Portland 14	BE5-8411
Pa	M-H Regulator Co.	3345 W Hunting Park Ave. Philadelphia	BA6-2400
Tex	M-H Regulator Co.	6000 N Central Expwy. Dallas 6	EM8-6401
	MINN-HONEYWELL REG. CO. IND. PRODS. GROUP Wayne & Windrim Aves. Phila 44, Pa		**DA9-8300**
Cal	M-H Regulator Co.	6620 Telegraph Rd. Los Angeles 22	RA3-6611
Fla	M-H Regulator Co. Aeronautical Div.	13350 U. S. Hwy. 19, St. Petersburg	HZ5-1151
Ga	M-H Regulator Co.	1415 Howell Mill Rd. NW, Atlanta	TR5-9561
Ill	M-H Regulator Co.	7350 N Lincoln Ave. Chicago 80	OR4-9770
Mass	M-H Regulator Co.	1230 Soldiers Field Rd. Boston 35	AL4-8730
Mich	M-H Regulator Co.	13631 Plymouth Rd. Detroit 27	TE4-6020
Mo	M-H Regulator Co.	2146 Hampton Ave. St. Louis 10	MI7-8100
NY	M-H Regulator Co.	24-30 Skillman Ave. LIC 1	EX2-4300
Ohio	M-H Regulator Co.	7645 Production Dr. Cincinnati 37	PO1-4500
Ore	M-H Regulator Co.	2600 SE Belmont, Portland 14	BE4-6511
Tex	M-H Regulator Co.	6000 N Central Expwy. Dallas 6	EM8-6401
Utah	M-H Regulator Co.	2280 S Main St. Salt Lake City 15	IN6-3828
	MINNEAPOLIS-HONEYWELL MILITARY PRODUCTS GROUP 2600 Ridgway Rd. Minneapolis 13, Minn		**ST1-8811**
Cal	R. H. Whempner	1017 Wilshire Blvd. Los Angeles 17	HU2-1230
Cal	R. G. Hoch	2153 Moore St. San Diego 1	CY8-9908
Colo	M. K. Henry	2130 S Dahlia, Denver 22	SK6-8892
DC	A. B. Dallas	2435 Virginia Ave. NW, Washington 7	FE8-9561
Kan	K. L. Barlow	2801 S Madison St. Wichita 1	LY1-3432
Mass	L. J. Westwater	1230 Soldiers Field Rd. Boston 35	AL4-8730
Mich	R. A. Winger	Box 3901, Strathmoor Sta. Detroit 27	TE4-6020
Mo	L. C. Cannon	2146 Hampton Ave. St. Louis 10	MI7-8100
NY	L. F. Westra	24-30 Skillman Ave. Long Island 1	EX2-4300
Ohio	J. G. Fitzpatrick	1441 Milburn Ave. Dayton 4	BA6-1492
Tex	D. E. Jewett	3145 St. Louis St. Fort Worth 10	WA7-7080
Wash	F. R. Wright, Jr.	401 Pontius Ave. N, Seattle 9	MU2-5610
	MINNESOTA MINING & MFG. CO. 900 Bush Ave. St. Paul 6, Minn		**FE6-8511**
Cal	Minnesota Mining & Mfg. Co.	320 Shaw Rd. S San Francisco	PL6-0800
Cal	Minnesota Mining & Mfg. Co.	6023 S Garfield Ave. Los Angeles 22	RA3-6641
Ga	Minnesota Mining & Mfg. Co.	732 Ashby St. NW, Atlanta	TR5-4401
Ill	Minnesota Mining & Mfg. Co.	6850 S Harlem Ave. Bedford Park	LU5-7800
Mass	Minnesota Mining & Mfg. Co.	1330 Centre St. Boston	DE2-9810
Mich	Minnesota Mining & Mfg. Co.	411 Piquette St. Detroit 2	TR5-7111
Mo	Minnesota Mining & Mfg. Co.	10725 Baur Blvd. St. Louis 32	WY1-1320
NJ	Minnesota Mining & Mfg. Co.	700 Grand Ave. Ridgefield	OX5-5520
Ohio	Minnesota Mining & Mfg. Co.	4835 Para Dr. Cincinnati 37	EL1-2313
Pa	Minnesota Mining & Mfg. Co.	5698 Rising Sun Ave. Philadelphia 20	PI2-0200
Tex	Minnesota Mining & Mfg. Co.	2121 Santa Anna Ave. Dallas	DA7-7311
Wash	Minnesota Mining & Mfg. Co.	3663 1st Ave. S, Seattle 4	MU2-5550
	MITCHELL RADIATION PRODUCTS CORP.	**E Washington St. Norristown, Pa**	**BR9-4547**
Cal	H. N. Beets Co.	2611 W 7th St. Los Angeles 57	DU9-3010
Cal	Bush Electric Co.	1245 Folsom St. San Francisco 3	UN3-1315
Ga	S & H X-Ray Co.	501 Peachtree St. NE, Atlanta 8	TR4-5746
Ill	Radiation Equipment Co.	469 E Ohio St. Chicago 11	SU7-8115
Tex	Nor-Tex X-Ray	3001 S Stuart Dr. Ft. Worth	WA3-4689
Wash	Bonnevie X-Ray Sales Co.	614 Seneca St. Seattle 1	MA4-5162
	MIXING EQUIPMENT CO., INC.	**135 Mt. Read Blvd. Rochester 3, NY**	**ID6-5550**
NY	Mixing Equipment Co., Inc.	136 Liberty St. New York 6	CO7-7015
	MOBIL OIL CO.	**150 E 42nd St. New York, NY**	
Cal	Mobil Oil Co.	612 S Flower St. Los Angeles	
Ill	Mobil Oil Co.	59 E Van Buren St. Chicago	
Mass	Mobil Oil Co.	548 Beacon St. Boston	
Mich	Mobil Oil Co.	903 W Grand Blvd. Detroit	
Minn	Mobil Oil Co.	84 S 6th St. Minneapolis	
Mo	Mobil Oil Co.	925 Grand Ave. Kansas City	
Mo	Mobil Oil Co.	10275 Page Industrial Blvd. St. Louis	
NY	Mobil Oil Co.	130 Pearl St. Buffalo	
Ohio	Mobil Oil Co.	1422 Euclid Ave. Cleveland	
Pa	Mobil Oil Co.	15th & Chestnut, Philadelphia	
Pa	Mobil Oil Co.	Robb St. & Ohio River, Pittsburgh	
Tex	Mobil Oil Co.	3710 Rawlings St. Dallas	
	MODEL BUILDERS, INC.	**5300 W 63 St. Chicago 38, Ill**	**RE5-6446**
Ill	Technical Exhibits Corp.	5300 W 63rd St. Chicago 38	LU1-3131
	MODEL DISPLAY STUDIOS	**Box 10604, Raleigh, N C**	**TE3-0844**
	MODEL ENGRG & MFG INC.	**50 Frederick St. Huntington, Ind**	**106**
Cal	C. K. Brust	2301 S Olive, Santa Ana	KI5-3043
DC	Orren Jones	1518 K St. NW, Washington 5	DI7-7304
Tex	C. M. Calmes	4315 Shenandoah, Dallas	LA6-8169
Utah	Montek Assoc. Inc.	4675 S State St. Salt Lake City 7	AM2-2464
	MODEL RECTIFIER CORP.	**1675 Utica Ave. Brooklyn 34, NY**	**CL8-6800**
	MODERN LAB. EQUIPMENT CO. INC. 1811 First Ave. New York 28, NY		**TR6-4700**
	MOFFAT ENGINEERING CO. LTD. 77 S Audley St. London, W1, Eng		**HY6900**
	MOLONEY ELECTRIC CO.	**5390 Bircher Blvd. St. Louis 20, Mo**	**EV3-3300**
Cal	Garland-Affolter Engr. Corp.	417 S Hill St. Los Angeles	MA4-1864
Conn	R. H. Whitehead & Assoc.	57 Whitefield St. Guilford	GL3-3761
DC	Moloney Electric Co.	401 Doniphan Bldg. Alexandria, Va	TE6-7226
Fla	Engineer Sales Co. Inc.	2472-24th Ave. N. St. Petersburg	7-3983
Ill	Moloney Electric Co.	72 W Adams St. Chicago 3	RA6-5007
Kan	Moloney Electric Co.	Plaza Theatre Bldg. Kansas City, Mo	WE1-4433
La	Moloney Electric Co.	4018 Thalia St. New Orleans	JA5-1139
Mass	J. F. Collins	Box 76, Belmont	IV4-8411
Mich	Moloney Electric Co.	16929 Wyoming Ave. Detroit	DI1-1431
NY	Pacent Engineering Corp.	300 Northern Blvd. Great Neck	HU2-4678
NY	V. J. Brown Co.	23 Eastern Ave. Syracuse	HO3-9161
Tex	Moloney Electric Co.	1205 Fidelity Union Life Bldg. Dallas 1	RI2-3710
	MOLYBDENUM CORP. OF AMERICA 375 Park Ave. New York 22, NY		**PL5-9000**
Ill	Molybdenum Corp. of America	38 S Dearborn St. Chicago 3	ST2-6393
Pa	Molybdenum Corp. of America	4 Gateway Center, Pittsburgh 22	AT1-3786
	MONSANTO CHEMICAL CO. ORGANIC CHEMICALS DIV.	**800 N Lindbergh Blvd. - Dept N, St. Louis 66, Mo**	**WY3-1000**
Cal	A. G. Eades	6670 E Flotilla St. Los Angeles 22	RA3-2492
Ga	J. F. Compton	1401 Peachtree St. Atlanta 9	TR6-0777
Mich	R. E. Draper	18230 Grand River Ave. Detroit 23	BR3-7090
Mo	R. A. Steenrod	800 N Lindbergh Blvd. St. Louis 66	WY3-1000
NY	D. Perry	445 Park Ave. New York 22	PL9-8180
	MONSANTO CHEMICAL CO. PLASTICS DIV. 600 Monsanto Ave. Springfield 2, Mass		
	MONSANTO CHEMICALS LTD.	**10/18 Victoria St. London SW1, Eng**	**AB5678**
	MOORE, RICHARD L.	**Box 24021, Los Angeles 24, Cal**	**BR03461**
	MOORE & CO., SAMUEL	**Main & Orchard Sts. Montrose, Ohio**	**CR4-2276**
Cal	W. Dix	5513 Elmbank Rd. Rolling Hills	RI6-6191
Conn	W. Toll	R. D. 3, Pocono Rd. Newtown	GA6-2470
Ga	W. K. Stallings Co.	3120 Maple Dr. NE, Atlanta 5	CE7-0600
Ill	J. R. Simpson & Co.	1212 S 17th Ave. Maywood	FI5-1813
Md	R. Klein	1418 Walnut St. Philadelphia	KI5-6094
Mich	Smith Instrument & Eqpt. Co.	7140 E Davison Ave. Detroit 12	TW1-8500
NY	H. Grandage	97 Kenilworth Rd. Mountain Lakes	WO4-0615
Ohio	Myers & Henley, Inc.	427 Temple Bar Bldg. Cincinnati 2	DU1-7783
Okla	Aljo Sales, Inc.	1307 S Boulder, Tulsa	LU5-8724
Pa	Biltmore Products Co.	1501 Potomac Ave. Pittsburgh 16	LO3-0898
Tex	Paul-Condit Co., Inc.	1025 Lehall, Houston	JA6-3027
Wash	Tower Equipment Co.	Box 158, Mercer Island	AD2-1458
	MORFAX LTD.	**Willow Ln. Mitcham, Surrey, Eng**	
	MORGAN CRUCIBLE CO. LTD.	**Battersea Church Rd. London SW11, Eng**	**BA8022**
	MORNINGSTAR PAISLEY, INC.	**630 W 51st St. New York 19, NY**	**JU2-3790**
Cal	Morningstar Paisley, Inc.	2457 E 30th St. Los Angeles	
Cal	Morningstar Paisley, Inc.	1111 Chestnut St. Redwood City	
Ill	Morningstar Paisley, Inc.	1770 Canalport Ave. Chicago 16	
Mo	Morningstar Paisley, Inc.	Union Blvd. at Brown Ave. St. Louis 15	EV3-3100
NJ	Morningstar Paisley, Inc.	4th & Utter Aves. Hawthorne	
NJ	Morningstar Paisley, Inc.	1153 Bloomfield Ave. Clifton	
	MOSELEY CO. F. L.	**409 N Fair Oaks Ave. Pasadena, Cal**	**SY2-1176**
Cal	Neely Enterprises	3939 Lankershim Blvd. N Hollywood	TR7-0721
Ill	Crossley Associates, Inc.	2501 W Peterson Ave. Chicago 45	BR5-1600
Mass	Instrument Associates	30 Park Ave. Arlington 74	MI8-2922
Mich	S. Sterling Co.	15310 W McNichols Rd. Detroit 35	BR3-2900
Mo	Harris-Hanson Co.	2814 S Brentwood Blvd. St. Louis	MI7-4350
NY	Gawler-Knoop Co.	178 Eagle Rock Ave. Roseland, NJ	CA6-4545

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
NY	E. A. Ossmann & Assoc.	830 Linden Ave. Rochester 10	LU6-4940
NC	Bivins & Caldwell, Inc.	Box 5187, High Point	2-6873
Pa	H. E. Ransford Co.	5400 Clairton Blvd. Pittsburgh 36	TU4-3425
Tex	E. Lipscomb Associates	Box 7084, Dallas	FL7-1881
Wash	Arva, Inc.	1320 Prospect St. Seattle 9	MA2-0177
Can	R-O-R Associates, Ltd.	1470 Don Mills Rd. Don Mills, Ont	HI4-4429
	MOSLER SAFE CO.	**Grand Blvd. Hamilton, Ohio**	**TW5-4321**
	MOTHERWELL BRIDGE & ENGRG. CO. LTD.	**Box 4, Motherwell, Scotland**	**MO5241**
Eng	Motherwell Bridge & Eng. Co. Ltd.	23 Princes Gate, London, S.W.7	KN0701
	MOTORESEARCH CO.	**1600 Junction Ave. Racine, Wis**	
Mass	A. Norden	Box 131, Jamaica Plain 30	
Mich	H. D. Mysing	18540 W McNichols, Detroit 19	
Ohio	A. M. Hanson	500 Cushing Ave. Dayton 29	
Pa	H. C. C. Shute	61 Steeplechase Rd. Devon	
Wis	S. E. Gonki	801 Wolff St. Racine	
	MOTOROLA INC. MILITARY ELECTRONICS DIV. Scottsdale, Ariz		**WH5-4311**
Ala	Motorola Inc.	912 Bob Wallace Ave. SW, Huntsville	
Cal	Motorola Inc.	1741 Ivar Ave. Hollywood	
DC	Motorola Inc.	1120 Connecticut Ave. NW, Washington	
NY	Motorola Inc.	225 N Washington St. Rome	
Ohio	Motorola Inc.	118 W 1st St. Dayton	
Ohio	Motorola Inc.	43 W Front St. Dayton 2	
	MOTOROLA SEMICONDUCTOR PRODUCTS INC. 5005 E McDowell Rd. Phoenix, Ariz		**BR5-4411**
Cal	Motorola Semiconductor Prods. Inc.	1299 Bayshore Hwy. Burlingame	DI2-3228
Cal	Motorola Semiconductor Prods. Inc.	1741 Ivar Ave. Hollywood 28	HO2-0621
Fla	Motorola Semiconductor Prods. Inc.	The KnoWel Bldg. Winter Park	MI7-2507
Ill	Motorola Semiconductor Prods. Inc.	5234 W Diversey Ave. Chicago 39	AV2-4300
Md	Motorola Semiconductor Prods. Inc.	8605 Cameron St. Silver Spring	JU5-4485
Mass	Motorola Semiconductor Prods. Inc.	385 Concord Ave. Belmont 78	IV4-5070
Mich	Motorola Semiconductor Prods. Inc.	13131 Lyndon Ave. Detroit 27	BR3-7171
Minn	Motorola Semiconductor Prods. Inc.	7731 6th Ave. N, Minneapolis 27	LI5-2198
NJ	Motorola Semiconductor Prods. Inc.	1051 Bloomfield Ave. Clifton	GR2-5300
NY	Motorola Semiconductor Prods. Inc.	101 S Salina St. Syracuse	GR4-3321
Pa	Motorola Semiconductor Prods. Inc.	130 S Easton Rd. Glenside	TU7-7020
	MUIRHEAD INSTRUMENTS, INC.	**441 Lexington Ave. New York 17, NY**	**MU2-8131**
	MULLARD EQUIPMENT, LTD.	**Torrington Pl. London WC1, England**	
	MULTI-CLEAN PRODUCTS, INC.	**2277 Ford Pkwy. St. Paul 16, Minn**	**MI8-8833**
	MURDOCK ASSOC. JAMES F.	**1482 New York Ave. Bklyn 10, NY**	**UL9-5032**
	MUTUAL BOILER & MACHY INSURANCE CO. 225 Wyman St. Waltham 54, Mass		**TW3-9300**
Cal	Mutual Boiler & Machy. Ins. Co.	605 Market St. San Francisco 5	YU2-5390
Cal	Mutual Boiler & Machy. Ins. Co.	225 Santa Monica Blvd. Los Angeles	EX3-0361
Ga	Mutual Boiler & Machy. Ins. Co.	60 11th St. NE. Atlanta 9	TR4-8676
Ill	Mutual Boiler & Machy. Ins. Co.	Elm Square Bldg. Elmhurst	TE4-0910
Mo	Mutual Boiler & Machy. Ins. Co.	4401 Hampton Ave. St. Louis 9	FL1-0530
NJ	Mutual Boiler & Machy. Ins. Co.	87 Valley Rd. Montclair	PI6-6200
Ohio	Mutual Boiler & Machy. Ins. Co.	20611 Center Ridge Rd. Cleveland	ED1-2427
Ohio	Mutual Boiler & Machy. Ins. Co.	411 Oak St. Cincinnati 19	UN1-1900
Pa	Mutual Boiler & Machy. Ins. Co.	121 S Broad St. Philadelphia 7	KI6-0635
SC	Mutual Boiler & Machy. Ins. Co.	508 Montgomery Bldg. Spartanburg	SP583-2792
Tex	Mutual Boiler & Machy. Ins. Co.	2915 Louisiana St. Houston 6	JA3-4405
	N. G. N. ELECTRICAL LTD.	**Ave. Parade, Accrington, Lanc, Eng**	**AC5611-2**
	N. J. E. CORP.	**20 Bright Ave. Kenilworth, NJ**	**BR2-6000**
Cal	G. S. Marshall Co.	2065 Huntington Dr. San Marino	MU1-5681
Cal	G. S. Marshall Co.	2016 S El Camino Real, Redwood City	EM6-8214
Colo	Barnhill Associates	1170 S Sheridan Blvd. Denver	WE5-4645
DC	Burlingame Associates	8218 Wisc Ave. NW, Washington 14	OL4-6400
Ill	Ridgway Associates	6100 W North Ave. Chicago 39	TU9-5715
Ind	Ridgway Associates	1224 N Capitol, Indianapolis 2	ME5-2401
Mo	Lee Mark Associates	4021 W 86th St. Kansas City 15	NI2-3313
NY	Burlingame Associates	510 S Fulton Ave. Mt. Vernon	MO4-7530
Ohio	Ridgway Associates	5915 Schaaf Rd. Cleveland 31	LA6-1421
Pa	Burlingame Associates	222 Long Ln. Upper Darby	SH7-9080
Wash	B. C. Porter Co.	1209 Poplar Pl. Seattle	EA3-8330
Can	Radionics, Ltd.	8230 Mayrand St. Montreal	REF-5517
	NRC EQUIPMENT CORP. SUB. NATIONAL RESEARCH CORP	**80 Charlemont St. Newton Highlands 61, Mass**	**DE2-5800**
Cal	NRC Equipment Corp.	499 Hamilton St. Palo Alto	DA6-3455
DC	NRC Equipment Corp.	72 Westwood Ave. Westwood, NJ	NO4-5156
Fla	W. C. Davis & Associates	101 Petroleum Bldg. Tallahassee	4-4926
Ga	W. C. Davis & Associates	1371 Peachtree St. NE. Atlanta 9	TR5-9658
Ill	NRC Equipment Corp.	3555 W Peterson Ave. Chicago 45	IR8-9674
Mich	NRC Equipment Corp.	32619 Grand River Ave. Farmington	GR6-3010
NM	C. Herrmann Associates	319-1A San Francisco St. Santa Fe	YU2-2881
NY	NRC Equipment Corp.	72 Westwood Ave. Westwood	NO4-5156
Pa	NRC Equipment Corp.	7929 Perry Hwy. Pittsburgh 37	FO4-2980
Tex	C. Herrmann Associates	9652 Ash Creek Dr. Dallas 28	RI7-5004
Wash	C. Herrmann Associates	6518 4th Ave. Seattle 15	LA3-5662
	N. S. F. LTD.	**31-32 Alfred Pl. London, WC1, Eng**	**LA9561**

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	NAGLE PUMPS, INC.	**1249 Custer Ave. Chicago Hgts. Ill**	
Cal	Frederick Pump & Eng. Co.	1245 S Boyle Ave. Los Angeles 23	AN9-9466
Cal	H-W Engineering Co.	2607 Cypress St. Oakland 7	GL2-4981
Colo	Mine & Smelter Supply Co.	3800 Race St. Denver 16	CH4-4353
Ill	Thomas Pump Co.	407 S Dearborn St. Chicago 5	HA7-3400
La	Roussel Pump & Elec. Co.	1623 Dumaine St. New Orleans 16	JA2-0702
Mass	Hayes Pump & Machy. Co.	100 Vine St. Somerville 43	MO6-3880
Mich	W. A. DaLee, Inc.	9190 Roselawn Ave. Detroit 4	WE3-4450
Mo	Shutt Process Equip Co.	1822 Cherry Ave. St. Louis 20	EV1-3273
NJ	Mooney Bros. Corp.	195 Paterson Ave. Little Falls	CL6-6200
Ohio	G. P. Schumacker Co.	1120 Chester Ave. Cleveland 14	PR1-7424
Tex	Heyck Equipment Co.	3260 Sul Ross, Houston 6	JA6-2961
Utah	Mine & Smelter Supply Co.	121 W 2nd S St. Salt Lake City 1	EM3-2791
	NALCO CHEMICAL CO.	**6318 W 66th Pl, Chicago 38, Ill**	**PO7-7240**
	NAMMAC CORP.	**Box 8, Indian Head, Md**	**RI8-2011**
Cal	Bogart-Bullock Corp.	6010 S Normandie Ave. Los Angeles 44	
Colo	Price Engineering Sales Assoc.	Box 421, Littleton	
Mass	Electronic Components & Services	30 Huntington Ave. Boston 16	
Mo	Gordon Fixman Engineering Co.	8160 Stanford Ave. St. Louis 30	
Va	R. Cantwell Co.	9321 Fresno Rd, Washington 14, DC	
Can	Biotronics Laboratories	Box 744, Sta. B, Montreal 2	
	NARDA MICROWAVE CORP.	**118 Herricks Rd. Mineola, NY**	
Cal	J. F. O'Halloran & Associates	11636 Ventura Blvd. North Hollywood	TR7-0173
DC	Burlingame Associates, Ltd.	8218 Wisconsin Ave. Washington 14	OL4-6400
Ga	E. G. Holmes & Associates	4969 Roswell Rd. NE, Atlanta 5	BL5-8660
Ill	L. F. Green & Associates	5218 W Diversey Ave. Chicago 39	PA5-6824
Mass	Burlingame Associates, Ltd.	974 Main St. Waltham 54	TW4-1955
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis 30	PA6-2233
NM	G. French Co.	7900 Zuni Rd. SE, Albuquerque	AM8-2479
NY	Burlingame Associates, Ltd.	510 S Fulton Ave. Mt. Vernon	MO4-7530
Ohio	M. P. Odell Co.	26614 Center Ridge Rd. Westlake	TRI-8000
Pa	Burlingame Associates, Ltd.	222 Long Ln. Upper Darby	SH7-9080
Tex	Alto Engineering Sales Co.	2720 W Mockingbird Ln. Dallas	FL1-0010
Wash	R. S. Drake Associates, Inc.	1817 Norman St. Seattle 44	EA3-8545
	NARDA ULTRASONICS CORP.	**625 Main St. Dept. NBG, Westbury, NY**	**ED3-5400**
Cal	L. H. Butcher Co.	3623 E Olympic Blvd. Los Angeles	
Conn	E. E. Smith Associates	7 S. Main St. Hartford	
NY	Graybar Electric Co.	420 Lexington Ave. New York	
	NASH ENGINEERING CO.	**450 Wilson Rd. South Norwalk, Conn**	
	NASH & HARRISON LTD.	**1355 Wellington St. Ottawa, Can**	**PA2-6544**
	NASH & THOMPSON LTD.	**Hook Rise, Tolworth, Surbiton, Surrey, Eng**	**EL5252**
	NATIONAL ANNEALING BOX CO. Washington, Pa		**BA5-6000**
	NATIONAL BERYLLIA CORP.	**4501 Dell Ave. North Bergen, NJ**	**UN4-8125**
DC	Nalls & Co.	1411 Penna. Ave. NW, Washington 4	RE7-7040
NJ	Thermal Refractories Corp.	4501 Dell Ave. North Bergen	UN5-1800
NY	Thermal Refractories Corp.	4501 Dell Ave. North Bergen, NJ	UN5-1600
Ohio	H. Lake	384 W 1st St. Dayton 2	BA4-3122
Pa	Valley Forge Associates	Anro Bldg. Devon	MU8-5103
	NATIONAL CARBON CO. DIV. UCC 270 Park Ave. New York 17, NY		**LL1-2345**
Ala	National Carbon Co.	2900 Cahaba Rd. Birmingham 1	TR2-4681
Cal	National Carbon Co.	22 Battery St. San Francisco 6	TU2-1369
Cal	National Carbon Co.	2770 Leonis Blvd. Los Angeles	LU3-3661
Ill	National Carbon Co.	230 N Michigan Ave. Chicago	FI6-3300
Mo	National Carbon Co.	910 Baltimore Ave. Kansas City	BA1-2400
Pa	National Carbon Co.	Oliver Bldg. Mellon Sq. Pittsburgh	EX1-3800
Tex	National Carbon Co.	3839 W Alabama, Houston	MO7-5641
	NATIONAL CASH REGISTER CO. Main & K Sts. Dayton, Ohio		**BA6-1411**
	NATIONAL CYLINDER GAS DIV. CHEMETRON CORP.	**800 N Michigan Ave. Chicago 11, Ill**	**WH4-3100**
Cal	National Cylinder Gas Division	4560 Pacific Blvd. Los Angeles 58	LU9-5521
Cal	National Cylinder Gas Division	1588 Doolittle Dr. San Leandro	LO2-3536
Colo	National Cylinder Gas Division	1160 10th St. Denver 4	AM6-1724
Fla	National Cylinder Gas Division	2310 S Edwards Ave. Jacksonville 3	EV7-7431
Fla	National Cylinder Gas Division	3102 4th Ave. Tampa 5	4-2121
Ill	National Cylinder Gas Division	4700 W 19th St. Chicago 50	BI2-1205
Mich	National Cylinder Gas Division	1301 Jarvis St. Ferndale 20	JO4-6850
NY	National Cylinder Gas Division	2136 85th St. North Bergen, NJ	UN9-5800
Ohio	National Cylinder Gas Division	1151 E 222nd St. Euclid 17	IV1-5000
Pa	National Cylinder Gas Division	Davis Island Yards, McKees Rocks	FE1-4900
Tex	National Cylinder Gas Division	3301 S National St. Dallas 22	HA1-7644
Wis	National Cylinder Gas Division	606 W Wisconsin Ave. Milwaukee 3	BR2-3038
	NATIONAL ELECTRONICS, INC.	**628 North St. Geneva, Ill**	**CE2-4300**
Cal	C. Price Co.	1010 S Robertson Blvd. Los Angeles	OL5-9454
For	E. D. Magnus & Associates, Inc.	188 W Randolph St. Chicago, Ill	FR2-8785
	NATIONAL FORGE CO.	**10 Frost St. Irvine, Warren County, Pa**	**LO3-7522**
Ala	H. A. Pals	Box 2021, Birmingham 1	AL1-8385
Cal	Coulter Steel & Forge Co.	1494-67th St. Emeryville	OL3-2512
Colo	F. A. Pease	4921 E 38th St. Denver 7	DU8-4643
DC	C. B. Scrimgeour	8616 Georgia Ave. Silver Spring, Md	JU5-4443
Ill	F. W. Sionek	5 Garden Ct. Prospect Heights	LE7-1555
Mass	Case Sales Co.	145 State St. Springfield	RE6-5203
Mich	J. Gallagher	Box 108, Hastings	WI5-4155

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
NJ	A. R. Kunkle	780 Greendale Rd. York	22911
NY	J. Frazier	25 Pickwick Dr. Rochester 18	HI5-5008
Ohio	T. J. Black	1729 38th St. Canton	GY2-1421
Pa	F. Price	7412 Perrysville Ave. Pittsburgh 2	PO1-2932
Tex	H. L. Schmidt	733 W Cheryl Ave. Hurst	AT4-8801
	NATIONAL INSTRUMENT LABS. INC.	**842 Everts St. NE, Washington, DC**	**HO7-7552**
Cal	R. W. Thompson Assocs.	814 San Antonio Rd. Palo Alto	DA1-6383
Fla	Gulf Instrument Assocs.	Box 828, Anna Maria	AN9-5201
Ill	The Jelinek Co.	906 Ellynwood Dr. Glen Ellyn	GL337-W
Mass	R. F. MacDowell Co.	58 Orient Ave. Melrose	ME4-8803
Mich	Basic Service Corp.	16544 Plymouth Rd. Detroit 27	VE7-8820
Mo	G. Fixman Engineering	8160 Stanford Ave. St. Louis 24	PA5-5219
NJ	Mechanical Specialties	30 Church St. New York, NY	WO4-6650
NY	H. D. Thweatt Co.	768 Potomac Ave. Buffalo	LI8276
Ohio	G. Outterson Co.	15104 Detroit Ave. Cleveland	AC1-8666
Pa	K. S. Engineering	Box 87, Media	LO6-8385
Tex	J. K. Moore Co.	3115 Leeland Ave. Houston 3	CA5-6059
Wash	R. H. Drake Assocs.	1806 Bush Pl. Seattle 44	EA3-3545
	NATIONAL LEAD CO.	**111 Broadway, New York 6, NY**	**RE2-9400**
Cal	M. P. Kirk & Son, Inc.	2700 S Indiana St. Los Angeles 23	AN2-1101
Ga	National Lead Co.	451 Bishop St. NW, Atlanta 9	TR6-7361
Ill	National Lead Co.	900 W 18 St. Chicago 8	CA6-2700
Md	National Lead Co.	214 W Henrietta St. Baltimore 3	PL2-6900
Mass	National Lead Co.	800 Albany St. Boston 6	GA7-1000
Mo	National Lead Co.	722 Chestnut St. St. Louis 1	CH1-8782
NJ	National Lead Co.	1050 State St. Perth Amboy	VA6-6000
NY	National Lead Co.	3241 Walden Ave. Depew	BE2540
Ohio	National Lead Co.	659 Freeman Ave. Cincinnati 3	PA1-7970
Ohio	National Lead Co.	1776 Columbus Rd. Cleveland 13	PR1-4060
Pa	National Lead Co.	1376 River Ave. Pittsburgh 12	FA1-2335
Tex	National Lead Co.	959 Terminal St. Dallas 2	RI7-8335
	NATIONAL MOLDITE CO., INC.	**250 South St. Newark 5, NJ**	**MI2-6860**
Conn	H. P. Chase	Box 47, Holyoke, Mass	JE3-0168
Ill	J. Golten Co.	2750 W North Ave. Chicago	EV4-5959
Ind	J. Golten Co.	2750 W North Ave. Chicago, Ill.	EV4-5959
Me	H. P. Chase	Box 47, Holyoke, Mass	JE3-0168
Mass	H. P. Chase	Box 47, Holyoke	JE3-0168
Mich	J. Golten Co.	2750 W North Ave. Chicago, Ill	EV4-5959
NH	H. P. Chase	Box 47, Holyoke, Mass	JE3-0168
NJ	Murray Sales Co.	Livingston	WY2-0520
NY	W. A. Franklin	2 Standish Terr. Syracuse	GI8-1120
Pa	Murray Sales Co.	Livingston, NJ	WY2-0520
Arg	O. R. Klein	Carlos Calvo 224, Buenos Aires	33-7770
Can	J. S. Plewes Co.	52 Humbercrest Blvd. Toronto 9, Ont.	RO9-2051
	NATIONAL RESEARCH CORP. METALS DIV.	**70 Memorial Dr. Cambridge 42, Mass**	**EL4-5400**
	NATIONAL SPECTROGRAPHIC LAB., INC.	**6300 Euclid Ave. Cleveland 3, Ohio**	**UT1-4664**
Cal	Braun Chemical Co.	1363 S Bonnie Beach Pl. Los Angeles	AN9-9311
Fla	Natl. Spectrographic Labs. Inc.	1180 Palm Ave. Hialeah	TU5-1691
Tex	F. W. Broo	1916 Stevens Forest Ln. Dallas	WH1-5255
	NATIONAL STEEL CORP. WEIRTON STEEL DIVISION	**Box 431, Weirton, W Va**	**WE-1000**
Cal	Weirton Steel Co.	3540 Wilshire Blvd. Los Angeles 5	
Cal	Weirton Steel Co.	235 Montgomery St. San Francisco 4	
Ill	Weirton Steel Co.	111 W Monroe St. Chicago 3	
Ind	Weirton Steel Co.	320 N Meridian, Indianapolis 4	
Mass	Weirton Steel Co.	20 Providence St. Boston	
Mich	Weirton Steel Co.	5-162 General Motors Bldg. Detroit 2	
Mo	Weirton Steel Co.	818 Olive St. St. Louis 1	
NY	Weirton Steel Co.	405 Lexington Ave. New York 17	
NY	Weirton Steel Co.	45 Exchange St. Rochester 14	
Ohio	Weirton Steel Co.	5th & Fine Sts. Cincinnati 2	
Ohio	Weirton Steel Co.	524 Superior Ave. Cleveland 14	
Pa	Weirton Steel Co.	1617 Penna. Blvd. Philadelphia 3	
	NATIONAL TANK & BOILER CO.	**7210 Polson Ln. St. Louis, Mo**	**JA4-1400**
	NATIONAL ULTRASONIC CORP.	**111 Montgomery Ave. Irvington 11, NJ**	**ES1-0550**
Cal	C. Herrmann Associates	291 Lambert Ave. Palo Alto	DA6-6033
Conn	M. Dermid Inc.	Waterbury	PL4-6161
Fla	Vanguard Associates	1312 Palm Ave. Melbourne	PA3-3074
Ill	Ardco Inc.	5000 W 73rd St. Chicago 38	PO7-2015
Mich	G. L. Nankervis Co.	15300 Fullerton Ave. Detroit	VE8-5780
Mo	Design & Sales Engineering Co.	7603 Forsyth Blvd. St. Louis	PA1-6403
NY	E.R.A. Inc.	340 Great Neck Rd. Great Neck	HU2-9320
NY	W. M. Fotheringham, Inc.	975-81 Niagara St. Buffalo 13	LI9088
Ohio	Custom Engineering Co.	2975 Far Hills Ave. Dayton 19	AX8-5246
Pa	S & S Associates, Inc.	Box 6, King of Prussia	SR3-7192
Tex	Gulf Coast Instrument Co.	511 Broadway, Houston	WA8-2421
Wash	F. H. Haight Co.	3212 Eastlake Ave. Seattle 2	EA2-1818
	NATIONAL UNION ELECTRIC CORP. ELECTRONICS DIV.	**Bloomington, Ill**	**96-76041**
Cal	R. A. Strassner Co.	1557 N Western Ave. Los Angeles 27	HO3-5694
Cal	R. A. Strassner Co.	126 3rd St. Los Altos	WH8-3334
Ga	F. Fausett & Co.	777 Pinehurst Terr. SW. Atlanta 10	PL3-3104
Ill	K. W. Meyers Co.	6713 N Oliphant Ave. Chicago 31	SP4-6440
Md	R. B. Barnhill & Associates	19 W Pennsylvania Ave. Towson 4	VA5-3431

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Mass	K. C. Stevens & Co.	235 Bedford St. Lexington 73	VO2-1812
NJ	Franklin & Andrews Sales Corp.	43 Kent Rd. Tenafly	LO9-8808
NY	Franklin & Andrews Sales Corp.	2 Standish Terrace, Syracuse 3	GI6-1120
Tex	Packard Associates	Love Field Air Term. Bldg. Dallas 35	FL7-5713
	NATIONAL VULCANIZED FIBRE CO.	**Maryland Ave. & Beech St. Wilmington 99, Del**	**OL5-6371**
Cal	National Vulcanized Fibre Co.	2216 S Garfield Ave. Los Angeles	RA3-0291
Ill	National Vulcanized Fibre Co.	2415 Gardner Rd. Broadview	AU7-1935
NY	National Vulcanized Fibre Co.	50 Church St. New York	CO7-3895
	NAVIGATION COMPUTER CORP.	**1621 Snyder Ave. Philadelphia 45, Pa**	
Cal	W. Theimer & Co.	405 S Sunnyvale St. Sunnyvale	RE9-6460
Cal	W. K. Geist Co.	3177 Glendale Blvd. Los Angeles 39	NO5-1195
Fla	W. A. Brown & Assoc., Inc.	201 Capron Rd. Indian River City	AM7-0411
Mass	Measurement Equipment Co.	Box 267, Wakefield	CR6-5770
Mich	Gaine Engineering	1474 E Outer Dr. Detroit 34	FO6-5353
NJ	R. D. Ross	784 Columbus Ave. New York 25, NY	PL5-1127
NY	R. D. Ross	784 Columbus Ave. New York 25	PL5-1127
NY	Advanced Components Corp.	119 Luther Ave. Liverpool	GR2-7886
Va	W. A. Brown & Assoc., Inc.	3610 Mt. Vernon Rd. Alexandria	TE6-1800
Wis	Arthur Engineering Sales Co.	11216 W Mallory Ave. Hales Corners	GA5-5919
Can	RC Testing Systems	618 Vaughan Rd. Toronto 10	
	NELCO METALS, INC.	**Canaan, Conn**	**TA4-5437**
	NEMS CLARKE CO. DIV. VITRO CORP. OF AMERICA	**919 Jessup-Blair Dr. Silver Spring, Md**	
Cal	Nems-Clarke Co.	2301 Pontius Ave. Los Angeles 64	GR7-6717
	NETWORK INDUSTRIES INC.	**Box 397, Bayonne, NJ**	**HE7-3929**
Ill	D. Dolin Sales	3553 W Peterson Ave. Chicago 48	JU8-3738
Ind	D. Dolin Sales	3553 W Peterson Ave. Chicago 48, Ill	JU8-3738
Mass	Cirolia, LeBlanc Sales Co. Inc.	885 Main St. Waltham 54	TW3-2742
Minn	D. Dolin Sales	5219 N Hopkins, Milwaukee, Wis	
NJ	E. Glass	250 W 57 St. New York City 19, NY	JU6-8440
NY	E. Glass	250 W 57 St. New York City 19	JU6-8440
Wis	D. Dolin Sales	5219 N Hopkins, Milwaukee	
	NEUTRONIC ASSOCIATES, INC.	**32 Tennessee Ave. Hempstead, NY**	**IV9-9840**
	NEUTRONICS LABORATORY	**Tinley Park, Ill**	**SY8-3700**
	NEW DEPARTURE DIV. GMC	**269 N Main St. Bristol, Conn**	**LU2-6371**
Cal	New Departure Div. GMC	3650 S Broadway, Los Angeles 7	AD3-5101
Cal	New Departure Div. GMC	1716 4th St. Berkeley 10	LA6-8750
Ill	New Departure Div. GMC	Chicago 6	DE2-7023
Ind	New Departure Div. GMC	320 N Meridian St. Indianapolis 4	ME5-5374
Mass	New Departure Div. GMC	31 St. James Ave. Boston 16	HA6-9867
Mich	New Departure Div. GMC	7-124 General Motors Bldg. Detroit 2	TR2-4700
Mo	New Departure Div. GMC	6611 Clayton Rd. St. Louis 17	PA6-0108
NY	New Departure Div. GMC	753 James St. Syracuse 3	GR2-5121
NC	New Departure Div. GMC	1051 E Morehead St. Charlotte 3	FR6-6565
Ohio	New Departure Div. GMC	20950 Center Ridge Rd. Cleveland 16	ED1-3525
Pa	New Departure Div. GMC	7 Bala Ave. Bala-Cynwyd	MO4-5870
Wis	New Departure Div. GMC	647 W Virginia St. Milwaukee 4	BR6-4840
	NEW ELECTRONIC PRODUCTS LTD.	**360 Kennington Rd, London SE11, Eng**	**RE5161**
	NEW ENGLAND NUCLEAR CORP.	**575 Albany St. Boston, Mass**	**LI2-3964**
	NEW ENGLAND SCIENTIFIC INSTRUMENTS CORP.	**238 Main St. Cambridge 42, Mass**	**KI7-1997**
	NEW ENGLAND TANK CLEANING CO.	**135 1st St. Cambridge 41, Mass**	
	NEW JERSEY SAFETY EQUIPMENT CO.	**299 Park Ave. East Orange, NJ**	**DR4-4372**
	NEW LONDON INSTRUMENT CO.	**Box 189, New London, Conn**	**GI3-8451**
Cal	R. W. Thompson & Associates	814 N San Antonio Rd. Palo Alto	DA1-6383
Fla	Scientific Sales Engineering Co.	2162 Piedmont Rd. NE. Atlanta 9, Ga	TR3-2475
Md	Engineering Associates	2125 Maryland Ave. Baltimore 18	HO7-1968
Mass	R. MacDowell Co. Inc.	58 Orient Ave. Melrose	NO4-8803
NJ	L. Freeman & Associates	24 Stephen St. Montclair	PI4-4775
NM	Hyde Electronics Co.	888 S Lipan St. Denver 23, Colo	WE6-3458
NY	Lake Electronic Sales Co.	791 Blossom Rd. Rochester 10	GR3-2465
Wash	J. K. Dooley Co. Inc.	3215 Western Ave. Seattle	AT4-8313
	NEW METALS & CHEMICALS, LTD.	**Chancery Ln. London, WC2, Eng**	
	NEW YORK AIR BRAKE CO.	**230 Park Ave. New York 17, NY**	**LE2-1900**
	NEW YORK SHIPBUILDING CORP.	**Camden 1, NJ**	**WO3-6700**
	NEW YORK TRANSFORMER CO., INC.	**Third Ave. Alpha, NJ**	**GL4-1143**
NY	W H Zimmerman Co.	112 DeWitt St. Syracuse	
NY	J. Sprung Associates	254 W 33rd St. New York	
Pa	D. G. Quinlan Co.	Ambler	
	NEWARK WIRE CLOTH CO.	**351 Verona Ave. Newark 4, NJ**	**HU3-7700**
Ala	Consolidated Engineering Co.	Birmingham 9	TR9-1831
Cal	Pacific Metals Co. Ltd.	1900 3rd St. San Francisco 7	UN3-5600
Cal	Pacific Metals Co. Ltd.	2187 S Garfield Ave. Los Angeles	RA3-5431
Ga	Consolidated Engineering Co.	3272 Peachtree Rd. NE, Atlanta 5	CE7-1606

Ill	Simmonds Following Co.	165 N Canal St. Chicago	CE6-5242
Mich	Gitre Co., Inc.	12909 W 8 Mile Rd. Detroit	DI1-9270
Mo	H. D. Burke & Son	210 S Bemiston Ave. St. Louis 5	VO3-5562
NY	Metallic Operations, Inc.	Box 172, Wanaw	WA277
Ohio	Hare Equipment	1720 Section Rd. Cincinnati 37	ME1-4783
Pa	W. E. Green	21 Circle Rd. Levittown	WI5-7724
Tex	R. H. Brinton	Box 1970, Houston 1	HA2826
Utah	Pacific Metals Co. Ltd.	261 W 5th St. Salt Lake City	DA2-3461

NEWMAN, HENDER & CO. LTD. Woodchester, Stroud, Gloucester, Eng NA360

Can	Newman, Hender (Can) Limited	320 Royalite Bldg. Calgary, Alb.	AM3-5940
Can	Newman, Hender (Can) Limited	4 Bestobell Rd. Toronto 14, Ont.	CL9-8832

NEWMAN INDUSTRIES LTD. ... Yate, Bristol, Eng. CH3311

Cal	Newman Electric Motors, Inc.	6129 E Slauson Ave. Los Angeles	RA3-9844
Ga	Newman Electric Motors, Inc.	1389 Chattahoochee Ave. NW, Atlanta	SY5693
Ill	Newman Electric Motors, Inc.	5830 Northwest Hwy. Chicago 31	SP4-6161
NJ	Newman Electric Motors, Inc.	357 Wilson Ave. Newark 5	MI2-1530
Tex	Newman Electric Motors, Inc.	5403 Clinton Dr. Houston	OR2-7471

NEWPORT INSTRUMENTS (SCIENTIFIC & MOBILE) LTD. Crowley Rd. Newport Pagnell, Bucks, Eng

NIAGARA SCREENS & PLANT LTD. Stroyfield Rd. Claybill, Enfield, Middlsx. England

NIHON-MUSEN K. K. ..... 930 Kamiosaka, Mitaka, Tokyo, Jap ..... MU(3)-4111

Jap	Nihon-Musen K. K.	1-ch, Shiba-Tamuracho, Minato-ku, Tokyo	(591)-9311
Jap	Nihon-Musen K. K.	22 Dojima Naka 1-ch, Kita-ku, Osaka	(36)-4631
Jap	Nihon-Musen K. K.	Nishi 4-ch, Sapporo, Hokkaido	(3)-6161
Jap	Nihon-Musen, K. K.	8-ch, Shinkaimachi, Fukuoka	(2)-0377
Jap	Nihon-Musen K. K.	1-ch, Motofune-machi, Nagasaki	(2)-0361

NON-LINEAR SYSTEMS, INC. .. Del Mar Airport, Del Mar, Cal SK5-1134
Sales Offices in all principal cities

NOOTER CORP. ..... 1424 S 3rd St. St. Louis 66, Mo

Cal	S. Y. Blue	2119 S Atlantic Blvd. Los Angeles 22	AN8-0660
NY	S. N. Olliver	30 Church St. New York 7	CO7-6840

NOPCO CHEMICAL CO. ..... 175 Schuyler Ave. North Arlington, NJ HU4-8400

Cal	Nopco Chemical Co.	4858 Valley Blvd. Los Angeles	CA1-3128

NORAIR DIV. NORTHROP CORP. 1001 E Broadway, Hawthorne, Cal OS5-4611

Ala	Northrop Corp.	3322 Memorial Parkway SW. Huntsville	JE9-4481
Colo	Northrop Corp.	E Pikes Peak Ave. Colorado Springs	ME3-4693
DC	Northrop Corp.	1700 K St. NW, Washington	NA8-3440
Neb	Northrop Corp.	8401 Dodge St. Omaha	TE7475
Ohio	Northrop Corp.	349 W 1st St. Dayton 2	BA2-8606
Tex	Northrop Corp.	Martin-Pecan-Soldad Sts. San Antonio	CA3-9519

NORDBERG MFG. CO. ..... 3073 S Chase Ave. Milwaukee, Wis SH4-2345

Cal	Nordberg Mfg. Co.	674 Harrison St. San Francisco 7	EX2-3305
DC	Nordberg Mfg. Co.	910 17th St. NW, Washington 6	NA8-2343
Kan	Nordberg Mfg. Co.	5812 Roeland Dr. Mission	CO2-6110
La	Nordberg Mfg. Co.	124 Camp St. New Orleans 12	TU5192
Minn	Nordberg Mfg. Co.	3424 E Lake St. Minneapolis 6	PA4-7220
Minn	Nordberg Mfg. Co.	600 Alworth Bldg. Duluth	RA7-6077
Mo	Nordberg Mfg. Co.	3300 S 2nd St. St. Louis 18	PR6-3050
NY	Nordberg Mfg. Co.	60 E 42nd St. New York 17	MU7-7666
Ohio	Nordberg Mfg. Co.	3637 Lee Rd. Cleveland 20	WY1-2576
Tex	Nordberg Mfg. Co.	169 Meadows Bldg. Dallas 6	EM8-4644
Tex	Nordberg Mfg. Co.	1811 Crawford St. Houston 2	CA4-1406

NORMA HOFFMANN BEARINGS CORP. Hamilton Ave. Stamford, Conn FI8-3731

Cal	H. R. Swanton, Inc.	325 W 17th St. Los Angeles 15	RI9-8114
Fla	Norma-Hoffmann	4165 Spring Glen Rd. Jacksonville	EX8-0294
Ill	Norma-Hoffmann	3317 N Harlem Ave. Chicago 34	AV2-3244
Mich	Norma-Hoffmann	10239 Puritan Ave. Detroit 38	UN4-2544
Mo	Tompkins Co.	2317 Charlotte St. Kansas City 8	VI2-8366
Ohio	Norma-Hoffmann	20575 Center Ridge Rd. Cleveland 16	ED3-0688
Ohio	Norma-Hoffmann	6914 Miami Rd. Cincinnati 27	BR1-3987
Ore	H. R. Swanton, Inc.	212 NW 14th Ave. Portland 9	CA7-0573
Pa	Norma-Hoffmann	1201 W Erie Ave. Philadelphia 40	BA6-0119
Wash	H. R. Swanton, Inc.	2739 4th Ave. S, Seattle 4	MU2-3232
Tex	Tompkins Co.	2743 Irving Blvd. Dallas	RI8-6541
Can	Lyman Tube & Bearings, Ltd.	5420 Pare St. Montreal 9	RI8-6953

NORRMAN LABORATORIES, ERNST Williams Bay, Wis

NORTH BRITISH STEEL FOUNDRY, LTD. Bathgate, W Lothian, Scot BA2341

Eng	Balbardie Ltd.	176 Broad St. Birmingham 15	MI0355
Eng	Balbardie Ltd.	46 Kingsway, London, WC2	CH9281
Scot	Balbardie Ltd.	NE Chambers, Sta. Sq. Harrogate	HA67247
Scot	Balbardie Ltd.	227 Bath St. Glasgow, C2	CI6463
Scot	Balbardie Ltd.	110 Hanover St. Edinburgh 2	CA3755

NORTH HILLS ELECTRONICS, INC. Alexander Pl. Glen Cove, NY OR1-5700

Cal	G. H. Vaughan Co.	2366 E Foothill Blvd. Pasadena	SY5-4420
Fla	W. J. Brinkley Co.	4501-4th St. N, St. Petersburg	HE6-1014
Mass	L. K. Ingber Co.	41 Cross St. W Newton 65	DE2-8574
Minn	Engineering Products Assoc.	1821 University Ave. St. Paul 4	MI6-3443
NY	Industron Co.	200 Northern Blvd. Great Neck	HU7-2620

NORTHEAST SCIENTIFIC CORP. 30 Wetherbee St. Acton, Mass CO3-7706

NORTHERN RESEARCH & ENGRG. CORP. 238 Main St. Cambridge, Mass KI7-5873

Eng	Northern Research & Eng. Corp.	195 Knightsbridge, London SW7	KN1-3711

NORTHEY ROTARY COMPRESSORS, LTD. Alder Rd. Parkstone, Poole, Dorset, Eng .. PA4900

Belg	L'Auxiliaire Industrielle & Commerciale	33 Ave. Woluendael, Brussels	
Den	Ordrup Maskin	19 Jaegersborg Alle, Charlottenlund, Copenhagen	
Eng	E. Garside	73 Furnis Ave. Totley Rise, Sheffield	SH7-4170
Eng	Harden Engineering Co.	7 Saville Pl. Newcastle on Tyne 1	NE2-9951
Ind	Heatly & Gresham, Ltd.	31 Chittaranjan Ave. Calcutta	
Ind	Heatly & Gresham, Ltd.	9, Forbes St. Bombay, 1	
Ind	Heatly & Gresham, Ltd.	Box 228, Madras	
Ind	Heatly & Gresham, Ltd.	Box 620, New Delhi	
Ind	Heatly & Gresham, Ltd.	4, W Wharf Rd. Karachi, 2	
Ind	Heatly & Gresham, Ltd.	9 Mall Mansions, Lahore	
Nor	Argo A/S.	Skippergaten 3, Oslo	
Swed	Zander & Ingestrom A/B.	Box 16078, Stockholm, 16	

NORTON CO. ..... 1 New Bond St. Worcester 6, Mass SW8-2511

Cal	Norton Co.	5905 Pacific Blvd. Huntington Park	LU2-8195
Ill	Norton Co.	4737 S Christiana Ave. Chicago 32	LA3-8700
Mich	Norton Co.	5805 Lincoln Ave. Detroit 8	TR5-8391
NJ	Norton Co.	Green & North Sts. Teterboro	AT8-1771
Ohio	Norton Co.	1306 E 55th St. Cleveland 3	HE1-9500
Pa	Norton Co.	4732 Stenton Ave. Philadelphia 44	DA9-4452

NORTON & CO. LTD. SIR JAMES FARMER ADELPHI IRON WKS. Salford 3, Manchester, Eng

Pa	Sutton Engineering Co.	1st Natl. Bank, Pittsburgh 22	

NOTHELFER WINDING LABS. .. 220 Ewingville Rd. Trenton 8, NJ TU2-2500

NUCLEAD, INC. ..... 110 Pacific St. Cambridge, Mass TR6-7717

NUCLEAR AIDS CORP. ..... 612 N Michigan Ave. Chicago 11, Ill MI2-0612

NUCLEAR-CHICAGO CORP. ... 345 E Howard Ave. Des Plaines, Ill VA7-4456

Cal	Nuclear-Chicago Corp.	1063 Colorado Blvd. Los Angeles 41	CL5-4711
Cal	Nuclear-Chicago Corp.	205 E 3rd Ave. San Mateo	DI4-7011
DC	Nuclear-Chicago Corp.	8226 Fenton St. Silver Spring, Md	JU8-2862
Ga	Nuclear-Chicago Corp.	3166 Maple Dr. NE, Atlanta 5	CE7-0151
Ill	Nuclear-Chicago Corp.	5709 N Lincoln Ave. Chicago 45	LO1-0626
Mass	Nuclear-Chicago Corp.	751 Main St. Waltham 54	TW4-7733
NY	Nuclear-Chicago Corp.	1449 E Gun Hill Rd. New York 69	TU1-2211
Tex	Nuclear-Chicago Corp.	5738 N Central Expwy. Dallas 6	TA4-1829
Can	Nuclear-Chicago Corp.	61 Murelien Crescent, Toronto 16, Ont.	PL9-6759
Ital	C. K. Bujalski	Box 532, Rome	462,056

NUCLEAR CIVIL CONSTRUCTORS 52-55 Carnaby St. London W 1, Eng

NUCLEAR CONSULTANTS CORP. 9842 Manchester Rd. St. Louis 19, Mo WO2-2162

Cal	Nuclear Consultants Corp.	1717 S Victory Blvd. Glendale 1	CH5-3965
Ohio	Nuclear Consultants Corp.	17907 Detroit Ave. Cleveland	LA1-8018

NUCLEAR CORP. OF AMERICA INSTRUMENT & RESEARCH DIV. 2 Rickwood Pl, Denville, NJ OA-4200

Cal	Isotopes Specialties Co.	170 W Providencia, Burbank	
Haw	Chapson Brothers	865 Halekauwila St. Honolulu 13	
Mo	Atomaster-Buntaine Corp.	111 W Jewel St. St. Louis 22	
NJ	R. Marshall Co.	201 S Broadway, Camden	
Pa	J. Long	1929 Letuche St. Pittsburgh	
Tex	Southwestern Eng. & Eqpt. Co.	3906 Lemmon Ave. Dallas	
Utah	Applied Engineering Prods. Co.	405 Felt Bldg. Salt Lake City	
Can	X-Ray & Radium Industries, Ltd.	201 Davenport Rd. Toronto 5, Ont.	
For	Tel Tech International	333 E 46th St. New York	

NUCLEAR DATA, INC. ..... 911 Regent St. Madison, Wis AL7-4433

Ill	C. Walsh Associates	Box 344, Deerfield	ID3-2300

NUCLEAR DECONTAMINATION CORP. Apollo, Pa GR2-8411

NUCLEAR DEVELOPMENT CORP. OF AMERICA 5 New St. White Plains, NY WH8-5806

For	NDA-Europe	31 rue du Marais, Brussels, Belgium	

NUCLEAR DEVELOPMENT LAB. Box 7034, Kansas City, Mo DE3-7692

NUCLEAR-ELECTRONICS CORP. 2925 N Broad St. Philadelphia 32, Pa BA6-7300

Cal	R. L. Pfleiger Co., Inc.	1682 Laurel St. San Carlos	LY1-0296
Colo	E. K. Kelley	336 E 4th St. Loveland	NO7-1376
Mass	Lin Associates	76 Strathmore Rd. Brighton 46	BE2-9446
Mo	Atomasters - Buntaine Corp.	111 W Jewel Ave. St. Louis 22	TA2-1961
NJ	Marcy Associates	1776 Broadway, New York	CI5-3880
Wash	B. C. Porter Co.	1209 Poplar Pl. Seattle 44	EA3-8330
Can	Electrodesign	9134 St. Lawrence Blvd. Montreal 11	DU9-5814
For	Ad. Aurisma, Inc.	85 Broad St. New York 4, NY	BO9-7150

NUCLEAR ENGINEERING CO. INC. 65 Bay St. Box 218, Pleasanton, Cal VI6-2897

NJ	Nuclear Engineering Co., Inc.	400 Delancy St. Newark 5	MI3-7718
Wash	W. W. Drury	947 Broadway, Tacoma	MA3-1420

NUCLEAR ENGINEERING, LTD. Langley Hr. Slough, Bucks, Eng SL2-4451

NUCLEAR ENTERPRISES (GB) LTD. Bankhead Medway, Edinburgh 11, Scot CR5262

Aus	Long Ind. Equip. Pty. Ltd.	201A George St. Sydney, NSW	

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Belg	Nucleobel S. A.	28 Rue du Fosse-aux-Loups, Brussels 1	
Den	Sensens Chemiske Lab.	Skindergade 38, Copenhagen K	
Fr	S. A. I. P.	38 Rue Gabriel Crie, Malakoff Seine	
Ger	Brindi, Ltd.	Schliessfach 202, Munich 23	
Ger	Sunvic Regler G.M.B.H.	Friedrich-Ebert-Str. 58, Solingen, W Ger	
Holl	Nenimij N. V.	74 Laan Copes Van Cattenburch, Hague	
Ital	Ing. Silvio Garrone S.R.L.	Via Marco Bemo 40, Rome	
Jap	Shiro Trading Co. S.A.	Osaka & Tokyo	
Nor	H. Meltzer & Co.	Radhusgaten 17, Oslo	
S Af	B. Owen Jones, Ltd.	Box 2933, Johannesburg, S. Africa	
Swed	Falico	Stadsgarden 18, Stockholm	

NUCLEAR ENTERPRISES, LTD. 550 Berry St. Winnipeg 12, Man

Ohio	Harshaw Chemical Co.	1945 E 97th St. Cleveland 6	RA1-8300

NUCLEAR FUELS & RARE METALS CORP. 817 E 10th St. LA 21, Cal. RI9-5105

Idah	Nuclear Fuels & Rare Metals Corp.	Box 425, Pocatello	

NUCLEAR LAUNDRY SERVICE INC. Box 4145, Waterbury 14, Conn PL6-7944

Pa	Nuclear Laundry	14th & Gaskill St. Jeannette	LA7-1526

NUCLEAR MATERIALS & EQPT. CORP. (NUMEC) Apollo, Pa GR2-8411

NUCLEAR MEASUREMENTS CORP. 2460 N. Arlington Ave. Indapls 18, Ind .. LI6-2415

Cal	C. Herrmann Associates	Box 1179, Palo Alto	DA8-6033
Conn	Nucleonic Distributors, Inc.	79 Clifton Ave. Marblehead, Mass	NE1-0637
Idah	C. Herrmann Associates	Box 1179, Palo Alto, Cal	DA6-6033
Md	The Hildebrand Co.	Box 1080, Fairfax, Va	CR5-2354
Mass	Nucleonic Distributors, Inc.	79 Clifton Ave. Marblehead	NE1-0637
Mich	M. Vogt	2817 Bamlet Rd, Royal Oak	LI3-3355
NY	W. H. Kramer	Box 164, Levittown	PE1-9445
Ohio	Lael Associates	Heights Center Bldg, Cleveland Heights 6	YE2-3220
Pa	Lael Associates	Heights Center Bldg, Cleveland Heights 6	YE2-3220

NUCLEAR METALS, INC. ..... Box 222, Concord, Mass EM9-5410

NUCLEAR-OHIO, INC. ..... 27105 Knickerbocker Rd. Cleveland 40, Ohio TR1-0800

NUCLEAR POWER PLANT CO. LTD. Booths Hall, Knutsford, Cheshire, Eng KN3800

NUCLEAR PRODUCTS CO. .... 15635 Saranac Rd. Cleveland 10, Ohio UL1-5940

Cal	W. D. Wilson Co.	1118 Mission St. S Pasadena	MU2-3227
Ill	Hinsdale Valve & Fitting Co.	10841 Southwest Hwy. Chicago Ridge	GA5-6440
La	Capital Valve & Fitting, Inc.	Box 1902, Baton Rouge	WA4-2810
Mass	Cambridge Valve & Fitting Co.	630 Worcester Rd. Framingham	TR5-0091
NJ	R. S. Crum & Co.	1167 Globe Ave. Mountainside	AD2-4444
NY	C. A. Pearson Co., Inc.	232 Winton Rd. N Rochester	HU8-2528
Ohio	Abbott Valve & Fitting Co.	1615 E 25th St. Cleveland	MA1-7218
Pa	Fogleman & Co., Inc.	3849 Willow Ave. Pittsburgh	LE1-2249
Pa	Penn Valve & Fitting Co.	530 Ryers Ave. Cheltenham	RA5-1300
Tenn	Ridge Valve & Fitting Co.	5514 Kingston Pk. Knoxville	S-5094
Tex	T. A. Read & Co.	Box 6861, Houston 5	JA6-4233
Va	Dibert Valve & Fitting Co.	2519 Grenoble Rd. Richmond 29	AT2-6360

NUCLEAR RESEARCH APPLICATIONS LTD. Bell St. Reigate, Surrey, Eng .. RE5341

NUCLEAR RESEARCH CORP... Southampton, Pa EL7-5615

NUCLEAR SCIENCE ASSOCIATES 55 Manor Dr. Newark 6, NJ FO6-7710

NUCLEAR SCIENCE & ENGINEERING CORP. Box 10901 Pittsburgh 36, Pa. HO2-4000

NUCLEAR SERVICE CONSULTANTS, INC. 650 11th Ave. New York 36, NY.. PL7-9783

Cal	Nuclear Service Consultants Inc.	1115 S LaCienaga Blvd. Los Angeles 35	OL5-8213
Colo	Nuclear Service Consultants Inc.	633 S Federal Blvd. Denver 19	WE5-3558
Ill	Nuclear Service Consultants, Inc.	1020 Central St. Evanston	DA8-8460

NUCLEAR SERVICE LABS. INC. Box 1885, Knoxville 1, Tenn 7-5475

NUCLEAR SHIELDING SUPPLIES & SERVICE. INC... 175 Main St. White Plains, NY RO1-1214

NUCLEAR TECHNOLOGY CORP Irvington, NY LY1-8820

NUCLEONIC CORP. of AMERICA 196 Degraw St. Brooklyn 31, NY ..... MA 4-7370

NUCLIDE ANALYSIS ASSOCIATES 146 N. Atherton St. State College, Pa.... AD8-8541

NUGENT ELECTRONICS CO., INC. 802 E 8th St. New Albany, Ind WH5-0211

Cal	Featherstone & Salisbury Co.	1355 Market St. San Francisco 3	KL2-2311
Cal	A. M. Wood Co.	Box 1031, W Arcadia	CU3-1201
Fla	P. Griffin	5601 Florida Ave. Tampa	36-8653
Ill	B. A. Menarik	3800 W North Ave. Chicago 47	CA7-3222
Ind	R. C. Warner & Associates	Box 338, S Whitley	350
Mass	S. B. Pierce	583 Neponset St. Norwood	NO7-3164
Minn	The Heimann Co.	1711 Hawthorne Ave. Minneapolis 3	FE2-5457
Mo	F. Somers & Co.	17th & Main Sts. Kansas City 8	GR1-1355
NY	C. R. Mayer	Bittersweet Pl. Huntington	HA1-4322
NY	J. P. Scanlon	51 Bloomfield Pl. Rochester 20	GR3-7523
Pa	S. A. Jeffries, Inc.	106 Forrest Ave. Narberth	MI2-9722
Can	E. G. Lomas	227 Laurier Ave. W, Ottawa, Ont	CE2-8504

NUKEM, GmbH. ..... Wolfgang bei Hanau/Main, Germany

NY	Terra Chemicals Inc.	500 5th Ave. New York 36	CH4-4934
Arg	Guilermo Keller Suc. F. A. Frohwein	Corrientes 316, Buenos Aires	327306

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Belg	Office Comm. Technique	84 Chaussee de Haecht, Bruxelles	17.05.20
Eng	Bush Beach & Segner Bayley Ltd.	Brazennose St. Manchester 2	
Ind	Ind. & Agr. Engg. Co.	43 Forbes St. Fort, Bombay	251440
Ital	Eigenmann & Veronelli, S.p.A.	Piazza S Maria Beltrade 8, Milan	8856
Jap	C. Correns & Co., Ltd.	2-Chome, Ginza Nishi, Chuo-Ku, Tokyo	(56)7151-8

NURNBERG THERMOMETER CO., INC. 124 Livingston St. Brooklyn 1, NY

NYDQVIST & HOLM AKTIEBOLAG Trollhetten, Sweden

OPW-JORDAN ..... 6013 Wiehe Rd. Cincinnati 13, Ohio ELI-1352

OAKITE PRODUCTS, INC. ..... 19 Rector St. New York 6, NY

Cal	Oakite Products, Inc.	Los Angeles 12	MA5-1544
Conn	Oakite Products, Inc.	410 Asylum St. Hartford 3	CH7-8323
Ga	Oakite Products, Inc.	417 Palmer Bldg. Atlanta 3	MU8-1298
Ill	Oakite Products, Inc.	400 N Michigan Ave. Chicago 11	SU7-8058
Mich	Oakite Products, Inc.	8-237 Gen. Motors Bldg. Detroit 2	TR5-8330
Mo	Oakite Products, Inc.	406 W 34th St. Kansas City 11	WE1-6619
Mo	Oakite Products, Inc.	111 S Bemiston Ave. St. Louis 5	PA5-8200
NY	Oakite Products, Inc.	315 Alexander St. Rochester 4	BA5-3377
Ohio	Oakite Products, Inc.	856 Euclid Ave. Cleveland 14	CHI-0672
Pa	Oakite Products, Inc.	42 S 15th St. Philadelphia 2	LO7-7660
Pa	Oakite Products, Inc.	733 Washington Rd. Pittsburgh 28	LO1-4611
Tex	Oakite Products, Inc.	1509 Main St. Dallas 1	RI7-2589

OCCUPATIONAL HYGIENE SERVICES 234 Calvary St. Waltham 54, Mass.... TW9-8827

OCEAN TRANSPORT CO..... 1 Drumm St. San Francisco, Cal

OERLIKON ENGINEERING CO. Zurich 50, Switzerland ZU481810

Arg.	Oerlikon Soc. Arg. de Res. Ltd.	Ave. Roque Saenz Pena 943, Buenos Aires	
Belg	Societe Belge Oerlikon	12 rue Belliard, Bruxelles	
Braz	Soc. Bras. Oerlikon de Maquinas Ltda.	Rua Buenos Aires 41, Rio de Janeiro	
Can	Oerlikon Canada Ltd.	2435 Lucerne Rd. Montreal 16	
Col	Comteco Ltda.	Carrera 7a 13-63, Bogota	
Eng	Oerlikon Ltd.	Southampton Rd. London WC1	
Fr	Societe Oerlikon	15 rue de Milan, Paris 9	
Ind	Larsen & Toubro Ltd.	Mathura Rd. New Delhi 1	
Ital	R. E. T. I.	Via L. Settembrini 26, Milano	
Jap	H. Wissler	Central Box 613, Tokyo	
S Afr	A. M. Burgun (Pty) Ltd.	260 Market St. Johannesburg	
Spn	Sociedad Espanola Oerlikon	Cale San Bernardo 17, Madrid	

OFFICINE GALILEO ..... Via Carlo Bini 44, Florence, Italy 413645

NY	Galileo Corp. of America	2 E 45th St. New York 36	MU2-7680
Belg	V.E.M.I.	Rue Jules Falqui 22 - Bruxelles 6	379917
Chil	Carlos Pentz Rattig	Casilla 2839 - Santiago Del	
Eng	Leland Instruments Ltd.	22-23 Millbank, Westminster-London S.W.1	VI3243
Fr	Galileo S.A.	5 Rue Lincoln - Paris	BA2716
Ger	F. Braun	Frankfurterstr. 1 - Offenbach/Main	87329
Spn	G. Matteini	Marq. Valdeiglasias, 3 - Madrid	

OFFICINE ING. DEMICHELIS & C. Via Bistolfi 31, Milan, Italy

OFFNER ELECTRONICS INC. 3938 River Rd. Schiller Park, Ill GL1-0050

Cal	Roland Olander & Co.	6313 Santa Monica Blvd. Los Angeles 38	HO9-6313
Fla	Murphy & Cota	2319 E South St. Orlando	GA4-5633
Ill	Pivan Engineering Co.	3542 Peterson Ave. Chicago 45	KE9-4838
Mass	Instrument Associates Inc.	30 Park Ave. Arlington 74	MI8-2922
Mo	Engineering Services Co.	6717 Vernon, St. Louis 30	PA6-2233
NJ	Gawler-Knoop Co.	178 Eagle Rock Ave. Roseland	CA6-4545
NM	Gene French Co.	7900 Zuni Rd. SE, Albuquerque	AM8-2478
NY	S.B.M. Associates	969 Clinton Ave. S, Rochester 20	GR3-6506
NC	Murphy & Cota	1106 Burke St. Winston Salem	PA4-0750
Ohio	Ridgway Associates	5915 Schaaf Rd. Cleveland	LA4-1421
Tex	Southwest Electronic Ind.	Meadows Bldg. Dallas 6	EM3-1671
Wash	R. S. Drake Assoc., Inc.	1817 Norman St. Seattle 44	EA3-8545

OHIO INJECTOR CO. ..... 275 Main St. Wadsworth, Ohio FE4-1531

Cal	Ohio Injector Co.	333 Montgomery St. San Francisco 4	GA1-1262
Ga	Ohio Injector Co.	524 Cazol Way, NW, Atlanta 5	BL5-3889
Ill	Ohio Injector Co.	206 W Wacker Dr. Chicago 6	FR2-9754
NY	Ohio Injector Co.	500 5th Ave. New York 36	LA4-6193
Okla	Ohio Injector Co.	829 Mayo Bldg. Tulsa 3	LU5-9238
Pa	Ohio Injector Co.	Pittsburgh	EX1-3350
Tex	Ohio Injector Co.	2822 Canal St. Houston 3	CA8-7581

OHIO SEMICONDUCTORS, INC. 1205 Chesapeake Ave. Columbus 12, Ohio HU8-9541

Cal	B. Kolans Co.	219 California Dr. Burlingame	DI4-7111
Cal	Key Electronics, Inc.	8533 Sunset Blvd. Hollywood 46	OL5-9140
Fla	W. F. Hemminger Co.	624 NE 79th St. Miami 38	PL8-0300
Ind	R. O. Whitesell & Associates	6620 Washington St. Indianapolis 18	FL9-5375
Mass	Electronic Components & Services	30 Huntington Ave. Boston 16	KE6-8561
Mo	McDowell Redlingshafer Sales Co.	1103 E Armour, Kansas City	WE1-5822
NY	Redford Corp.	262 Saratoga Rd. Scotia	EX9-1124
NY	F. Tylinski Co.	73-63 Bell Blvd. Bayside 64, Queens	HO4-8927
Pa	Tyler Griffin Co.	32 S Fairfield Rd. Devon	MU8-4821
Wash	Seatronics, Inc.	1817 Norman St. Seattle 44	EA5-8545
Wis	E. A. Dickinson & Associates	4117 Green Bay Ave. Milwaukee 9	CO4-1080

OHMART CORP. ..... 2236 Beeson St. Cincinnati 14, Ohio FA1-2302

Cal	Crown Berkley Engineering, Inc.	2439 Riverside Dr. Los Angeles 39	NO5-1251
Colo	ESCO-Equipment Specialties Co.	171 Vallejo St. Denver 23	SH4-2737
Ga	L. M. Crowe Co.	111 Tuxedo Terrace NW, Atlanta 5	CE7-9209

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Ill	Norman Engineering Co.	2115-17 W Marquette Rd. Chicago 36	HE4-2300
La	Williams Equipment Co.	9628 Robins Ln. New Orleans 23	
Minn	Ramsey Engineering Co.	1853 W County Rd. C., St. Paul 13	MI3-5150
Mo	The E. B. Miller Co.	10117 Manchester Rd. St. Louis	YO6-8250
NJ	G. H. Birchall Co.	Box 84, Westfield	AD2-3600
Ohio	Process Valve & Equipment Co.	4517 Brook Park Rd. Cleveland 34	
Pa	Penn-Del Instrument Sales Co.	709 Bethlehem Pk. Philadelphia 18	CH7-7389
Pa	Biltmore Products Co., Inc.	1501 Potomac Ave. Pittsburgh 16	LO3-0808
Tex	Industrial Scientific, Inc.	Fort Worth	ED6-2518
	OHMITE MFG. CO.	**3601 Howard St. Skokie, Ill**	**OR5-2600**
Ariz	Shefler-Kahn Co.	940 S 1st Ave. Phoenix	AL8-7893
Cal	H. Becker Co., Inc.	1140 Crenshaw Blvd. Los Angeles 19	WE1-1287
Cal	Belchamber & French	1485 Bayshore Blvd. San Francisco 24	JU6-0406
Ind	F. C. Valentine, Inc.	511-512 Ft. Wayne Bank Bldg. Ft. Wayne 2	AN9122
Mich	Ohmite Manufacturing Co.	26101 Grand River, Detroit 40	KE7-3960
Mass	P. R. Sturgeon, Inc.	25 Huntington Ave. Boston 16	CO6-7705
Mo	H. A. Roes & Co.	2601 Cherry St. Kansas City 8	BA1-0866
NJ	Ohmite Manufacturing Co.	318 Bergen Blvd. Palisades Park	WI7-1777
NY	Ohmite Manufacturing Co.	3700 East Ave. Rochester 18	DU1-1890
Ohio	McFadden Sales Co.	150 E Broad St. Columbus 15	CA1-3362
Pa	S. K. Macdonald, Inc.	1531 Spruce St. Philadelphia 2	KI5-1205
Wash	Marsh Agencies, Inc.	2601 1st Ave. Seattle 1	MA2-8761
	OILGEAR CO	**1560 W Pierce St. Milwaukee, Wis**	**MI5-6715**
Cal	The Oilgear Co.	5327 Santa Monica Blvd. Los Angeles	HO5-3943
Ill	The Oilgear Co.	1404 N Main St. Rockford	RO2-2355
Ill	The Oilgear Co.	4754 W Washington Blvd. Chicago	AU7-8649
Mich	The Oilgear Co.	6540 St. Antoine St. Detroit	TR5-9443
NJ	The Oilgear Co.	570 N Broad St. Elizabeth	EL2-0313
NY	The Oilgear Co.	610 Englewood Ave. Buffalo	AM0575
Ohio	The Oilgear Co.	1720 Section Rd. Cincinnati	RE1-5520
Ohio	The Oilgear Co.	3109 Mayfield Rd. Cleveland	FA1-7878
Wash	The Oilgear Co.	914 Artic Bldg. Seattle	MA2-7445
	OKADEE VALVE CO.	**332 S Michigan Ave. Chicago 4, Ill.**	**HA7-6066**
	OLIN MATHIESON CHEMICAL CORP. NUCLEAR FUELS OPER.	**275 Winchester Ave. New Haven, Conn**	**SP7-7911**
Cal	Olin Mathieson Chem. Corp.	3243 Wilshire Blvd. Los Angeles 5	DU5-6371
DC	Olin Mathieson Chem. Corp.	1000 Conn Ave. NW, Washington 6	DI7-2911
Ohio	Olin Mathieson Chem. Corp.	349 W 1st St. Dayton 2	BA4-9631
	OLSON FILTRATION ENGINEERS, INC. 5024 Section Ave. Cincinnati 12, Ohio		**RE1-5500**
	OMATON DIV. BURNDY CORP.	**Norwalk, Conn**	
Cal	Burndy Corp.	14627 Ventura Blvd. Los Angeles	ST8-3281
Ill	Burndy Midwest	6030 Northwest Hwy. Chicago	SP4-1464
Mass	J. J. Costello Co.	131 Clarendon St. Boston	CO6-3828
Minn	L. Murphy & Associates	1700 Hennepin Ave. Minneapolis	FE9-4881
NY	V. J. Brown Co.	23 Eastern Ave. Syracuse	HO3-9161
NY	Burndy Corp.	2 Penn Pl. Pelham	LU4-9300
Ohio	Burndy Ohio	1433 E McMillan St. Cincinnati	PL1-1611
Pa	Bradley Co.	3341 Arch St. Philadelphia	EV3-4040
	ON MARK COUPLINGS	**4449 York Blvd. Los Angeles 41, Cal**	**CL4-2501**
Cal	Airsupply Aero Engineering Co.	9615 Wilshire Blvd. Beverly Hills	BR2-8111
Ga	Airsupply Aero Engineering Co.	3272 Peachtree Rd. NE, Atlanta 5	CE7-8636
Ind	Airsupply Aero Engineering Co.	3440 N Meridian St. Indianapolis 4	WA5-3528
NY	Airsupply Aero Engineering Co.	220 Old Country Rd. Mineola	PI7-8686
	ONTARIO RESEARCH FOUNDATION 43 Queen's Park, Toronto 5, Ont.		**WA4-6201**
	OPTICAL WORKS, LTD.	**32 The Mall, Ealing W5, Eng.**	**EAS678**
	OREGON ELECTRONIC MFG. CO. 2105 SE 6th St. Portland 14, Ore		**BE6-9292**
Cal	White & Co.	788 Mayview Ave. Palo Alto	DA1-3350
Cal	Wallace & Wallace	1206 Maple Ave. Los Angeles 15	RI7-0401
Md	Taylor Engineering, Inc.	2100 St. Paul St. Baltimore 18	BE5-9126
Mass	H. J. Schuft Co., Inc.	815 Washington St. Newtonville	DE2-2059
Ore	Hawthorne Electronics	700 SE Hawthorne Blvd. Portland 14	BE4-9375
Tex	H. D. Edmiston	2717 Swiss Ave. Dallas	TA7-2869
Can	Electrodesign	9124 St. Lawrence Blvd. Montreal 11	DU9-5914
	OREGON METALLURGICAL CORP.	**Box 484, Albany, Ore**	**WA6-4281**
	ORENDA ENGINES, LTD.	**Box 4015, Term. A, Toronto, Can**	**BU6-4911**
Cal	A. V. Roe Aero Group Ltd.	8921 Sepulveda Blvd. Los Angeles	ORS-3101
NY	C. F. Russell Co. Ltd.	50 Parks Ave. Bay Shore	
Pa	Teleflex Co. Ltd.	Box 218, North Wales	OX9-4861
	ORR & SEMBOWER, INC.	**974 Morgantown Rd. Reading, Pa**	**FR5-4341**
	ORTHO FILTER CORP.	**7 Paterson St. Paterson 1, NJ**	**MU4-5858**
Cal	P. F. Wiley Co.	1632 Silverlake Blvd. Los Angeles 26	NO3-8028
Ill	Gilbert Engineering Co.	2842 N Sheridan Rd. Chicago 14	BU1-1888
Kan	Associated Industries, Inc.	455 S Washington, Wichita 2	HO4-0391
Mass	J. D. Decher	40 Berkley St. Waltham 54	TW3-2682
NJ	J. Onore	555 Winchester Ave. Union	MU7-0668
NY	A. Perkins Co.	839 S Warren St. Syracuse	GR1-5828
NC	Southwest Sales Co.	Box 6143, Raleigh	TE4-8565
Wash	Associated Industries	1752 Rainier Ave. Seattle	EA5-4400

TERR	MANUFACTURERS SALES /OR REPRESENTATIVES OFFICES		TEL. NO.
	OSTER MFG. CO., JOHN, AVIONIC DIV. 1 Main St. Racine, Wis		**ME7-4445**
Cal	John Oster Mfg. Co.	5333 S Sepulveda Blvd. Culver City	EX1-5742
NY	John Oster Mfg. Co.	310 Northern Blvd. Great Neck	HU7-0930
	OVITRON CORP.	**37-05 48 Ave. Long Island City, NY**	**EM1-1752**
	PCA ELECTRONICS INC	**16799 Schoenborn St. Sepulveda, Cal**	**EM2-0761**
Ariz	Pryco Engineering Reps.	478 N Scottsdale Rd. Scottsdale	WH5-3281
Cal	Humphrey, Inc.	2606 Canon St. San Diego	AC3-1854
Fla	E. C. Raymund & Associates	5903 Seminole Rd. Madeira Beach	WA1-9735
Ill	W. G. Brouillette & Associates	1558 Newcastle, Westchester	FI5-6500
Mass	Bordewieck Engineering Sales Co.	Braintree	VI3-0845
NJ	R. P. Luce & Co.	7 Beechwood Rd. Summit	CR3-9250
NY	H. C. Johson Agencies, Inc.	111 Mount Hope Ave. Rochester 20	HA6-1090
Tex	H. Edmiston	Box 5832, Dallas	RI7-8277
Wash	J. K. Dooley Co.	3215 Western Ave. Seattle 1	AT4-8313
For	Dage Corp.	219 E 44th St. New York 17	MU2-0755
	P I C DESIGN CORP.	**477 Atlantic Ave. East Rockaway, NY**	**LY3-6470**
Cal	Pic Design Corp.	7335 Van Nuys Blvd. Van Nuys	ST2-6702
Conn	J. Swane	477 Atlantic Ave. East Rockaway	LY3-6470
DC	W. J. Swane	477 Atlantic Ave. East Rockaway, NY	LY3-6470
Fla	C. W. Caverno	477 Atlantic Ave. East Rockaway, NY	LY3-6470
Mass	T. Tappan	477 Atlantic Ave. East Rockaway, NY	LY3-6470
Mich	Henschen, Jensen & Co.	2842 W Grand Blvd. Detroit 2	TR1-0300
NJ	C. J. Keenan	477 Atlantic Ave. East Rockaway, NY	LY3-6470
NY	H. Hering	477 Atlantic Ave. East Rockaway	LY3-6470
Ohio	J. O. Olsen Co.	16201 Shaker Blvd. Cleveland 36	SK2-5444
Pa	K. B. Erdman	7908 High School Rd. Philadelphia 17	CA4-1833
Tex	K. E. Luger Co.	Box 6704, Houston 5	JA8-5581
Wis	F. W. Ladky Associates, Inc.	4604 N Wilson Dr. Milwaukee 11	WO2-2942
	PACE ELECTRICAL INSTRUMENTS CO., INC.	**70-31 84th St. Glendale 27, NY**	**TW4-4290**
	For Sales Representatives see Precision Apparatus Co. Inc.		
	PACIFIC COAST ENGINEERING CO. PO Drawer E, Alameda, Cal		**LA2-6100**
Cal	Pacific Coast Eng. Co.	Box 72, Torrance	FA0-0341
NY	Pacific Coast Eng. Co.	51 E 42nd St. New York 17	OX7-1475
	PACIFIC ELECTRIC MOTOR CO. 1009 66th Ave. Oakland 21, Cal		**LO9-7621**
	PACIFIC ELECTRO-NUCLEAR CORP. 9520 Jefferson Blvd. Culver City, Cal		**VE7-4411**
	PACIFIC PUMPS, INC.	**5715 Bickett St. Huntington Park, Cal**	
Cal	Pacific Pumps, Inc.	417 Market St. San Francisco 5	YU1-1175
Ga	Pacific Pumps, Inc.	3166 Maple Dr. NE, Atlanta 5	CE3-4238
Ill	Pacific Pumps, Inc.	79 W Monroe St. Chicago 3	FR2-5712
La	Pacific Pumps, Inc.	1563 Choctaw Dr. Baton Rouge	EL8-4398
NY	Pacific Pumps, Inc.	122 E 42nd St. New York 17	OX7-2800
Ohio	Pacific Pumps, Inc.	4500 Euclid Ave. Cleveland 3	EN1-3773
Okla	Pacific Pumps, Inc.	1358 S Sheridan Ave. Tulsa 12	TE6-2521
Pa	Pacific Pumps, Inc.	1612 Market St. Philadelphia 3	LO7-7073
Tex	Pacific Pumps, Inc.	1619 Ovid St. Houston 10	CA9-2331
	PACIFIC SEMICONDUCTORS, INC. 14520 S Aviation Blvd. Lawndale, Cal		**OS8-0561**
Cal	Pacific Semiconductors, Inc.	701 Welch Rd. Palo Alto	DA1-2240
Cal	Pacific Semiconductors, Inc.	8271 Melrose Ave. Los Angeles 46	OL3-7850
Ill	Pacific Semiconductors, Inc.	6957 W North Ave. Oak Park	VI8-9750
Md	Pacific Semiconductors, Inc.	1811 N Rolling Rd. Baltimore 7	WI4-3622
Mass	Pacific Semiconductors, Inc.	471 Washington St. Wellesley 81	CE5-0171
Mich	Pacific Semiconductors, Inc.	1204 N Woodward, Royal Oak	LI8-4722
NJ	Pacific Semiconductors, Inc.	870 Broadway, Newark 4	HU4-5616
NY	Pacific Semiconductors, Inc.	4455 E Genesee St. DeWitt	GI6-4600
Pa	Pacific Semiconductors, Inc.	320 Huntingdon Pike, Philadelphia 11	PI2-8069
	PACIFIC TRANSDUCER CORP.	**11836 SW Pico Blvd. Los Angeles 64, Cal**	
	PACIFIC VALVES, INC.	**3201 Walnut Ave. Long Beach, Cal**	**GA6-2531**
Cal	Pacific Valves, Inc.	5675 Landregan, Emeryville	OL4-2913
Ill	Pacific Valves, Inc.	2824 S 17th, Chicago	FI5-7041
Mass	Pacific Valves, Inc.	20 Cummings Rd. Brookline	RE4-3967
Mo	Pacific Valves, Inc.	3738 Washington Ave. St. Louis	JE3-3769
NJ	Pacific Valves, Inc.	231 Everett Ave. Woodbury	TI5-7100
NY	Pacific Valves, Inc.	22 E 40th St. New York	LE2-5012
Ohio	Pacific Valves, Inc.	20950 Center Ridge Bldg. Cleveland	ED3-1322
Okla	Pacific Valves, Inc.	301 Midstates Bldg. Tulsa	GI7-3359
Pa	Pacific Valves, Inc.	355 5th Ave. Pittsburgh 22	EX1-2462
Tex	Pacific Valves, Inc.	3802 W 12th, Houston	UN2-8821
Wash	Pacific Valves, Inc.	2208 White-Henery-Stuart Bldg. Seattle	MU2-4235
	PACKARD INSTRUMENT CO., INC. Box 428, La Grange, Ill		**HU5-6330**
Cal	Packard Instrument Sales Corp.	1010 Irving St. San Francisco 22	MO1-1445
Cal	Packard Instrument Sales Corp.	Box 90409, Airport Sta. Los Angeles 45	FR4-9905
DC	Packard Instrument Sales Corp.	6412 Lone Oak Dr. Bethesda 14, Md	EM5-2550
Ga	Packard Instrument Sales Corp.	Box 762, Decatur	ME6-3428
Mass	Packard Instrument Sales Corp.	Box 363, Marblehead	NE1-5914
NY	Packard Instrument Sales Corp.	139-21 85th Dr. Jamaica 35	AX7-3900
Pa	Packard Instrument Sales Corp.	Box 338, Haddonfield, NJ	HA9-0885
Pa	Packard Instrument Sales Corp.	Box 9727, Pittsburgh 29	WE1-7020
Swit	Packard Instrument Intl, S. A.	Talstr. 39, Zurich 1	23 50 51
	PACKED COLUMN CORP.	**30 Church St. New York 7, NY**	**WO2-7240**
	PANAX EQUIPMENT, LTD.	**Holmethorpe Ind Est Redhill, Surrey, Eng**	

	PANELLIT DIV. ISI, INC.	**7401 N Hamlin Ave. Skokie, Ill**	**OR5-2500**
Del	Panellit	10th & King Sts. Wilmington	OL8-5104
La	Panellit	635 Laurel St. Baton Rouge	DI2-7269
NY	Panellit	60 E 42nd St, New York	OX7-8841
Tex	Panellit	Prudential Bldg. Houston 25	JA3-4466
	PANELYTE DIV. ST. REGIS PAPER CO.	**Enterprise Ave. Trenton, NJ**	**EX2-2161**
Cal	Electrical Specialty Co.	2820 E 12th St. Los Angeles	AN9-9511
Conn	Panelyte Division	2464 Whitney Ave. Hamden	CH8-2678
DC	Panelyte Division	8227 Woodmont Ave. Washington	OL4-8976
Ill	Panelyte Division	7314-18 N Ridgeway Ave. Skokie	JU3-2900
Mass	Panelyte Division	110 Cypress St. Brookline	AS7-8671
Mich	Panelyte Division	15631 W McNichols Rd. Detroit 35	BR3-6240
Mo	F. R. Hearn Co.	5671 Chippewa St. St. Louis	HU1-8135
NY	Panelyte Division	360 Lexington Ave. New York	OX7-4400
NY	Reed-Tollefson Corp.	2815 Monroe Ave. Rochester 18	HI5-0450
Ohio	Reed-Tollefson Corp.	3737 Chester Ave. Cleveland 14	EX1-9150
Tex	Cadillac Plastics & Chemicals Co.	2846 Irving Blvd. Dallas 7	RI7-7044
Wis	Hamlet & Smith	1324 W Wisconsin, Milwaukee	DI2-4665
	PANERO ENGINEERS, GUY B.	**630 3rd Ave. New York 17, NY**	**YU6-4949**
	PANTAK LTD.	**Vale Rd. Windsor, Berks, Eng**	**WI3225**
	PANTATRON LTD.	**5A Princes St. Hanover Sq. London W1, Eng**	
Belg	Koopman & Co.	6 Stadhouderskade, Amsterdam W.1, Holl	82821
Den	Semler & Mathiassen	Tegiveerkgade 22, Copenhagen	01 29 03 11
Fin	Isotekno Oy	Mikonkatu 13 A, Helsinki	
Ger	Nuclear GmbH.	Florastr. 16, Duesseldorf	193 77
Holl	Koopman & Co.	6 Stadhouderskade, Amsterdam W.1	82821
Ital	Rangoni & Puricelli	Via G. Masarenti, Bologna	342 857
Lux	Koopman & Co.	6 Stadhouderskade, Amsterdam W.1, Holl.	82821
Spn	Technicas Nucleares S.A.	Serrano 46, Madrid I.	25 60 85
Swed	Lehmkuhl A/B	Nedre Vollgte 3, Oslo	OS 55 92 55
Swed	Semler & Mathiassen	Tegiveerkgade 22, Copenhagen, Den	01 29 03 11
Swit	F. Fenyves	Oberwilerstr. 38, Basel	061 39 47 81
For	English Exporters Ltd.	9/10 Marble Arch London W.1, Eng	AM2891
	PARAGON ELECTRIC CO.	**1635 12 St. Two Rivers, Wis**	**303**
	PARAPLEGICS MFG. CO. INC.	**304 York Rd. Bensenville, Ill**	**FO6-0350**
	PARKER AIRCRAFT CO.	**5827 W Century Blvd. LA 45, Cal**	**OR0-1221**
Cal	D. R. Faulkner	3669 Royal Meadow Rd. Sherman Oaks	ST8-8095
Kan	J. L. Fields	5 English Ave. Wichita 8	MU3-1143
Mo	H. Andres	813 Hentschel Pl. St Louis 35	JA1-6784
Ohio	P. G. Schloemer	493 W Rahn Rd. Dayton 59	AX8-2067
	PARSONS CO., RALPH M.	**617 W 7th St. Los Angeles 17, Cal**	**MA5-2484**
DC	The R. M. Parsons Co.	1000 16th St. NW, Washington 6	DI7-3300
NY	The R. M. Parsons Co.	375 Park Ave. New York 22	PL1-5330
	PARTLOW CORP.	**Dept. HBG-58, New Hartford, NY**	**SW7-2222**
Cal	Pacific Scientific Co.	760 Harrison St. San Francisco	DO2-0934
Cal	Pacific Scientific Co.	6280 Chalet Dr. Los Angeles	SP3-2020
Conn	Etter Engineering Inc.	Box 1944, New Haven	AT8-1115
Ill	Finn & Conway Inc.	8216 S Western Ave. Chicago	WA5-9702
Mass	Etter Eng. Inc.	Box 47, Waltham	TW3-8658
Mich	O. Stirling Inc.	2591 W. Grand, Detroit	TR5-6300
Mo	Brandwine Equipt. Co.	2683 Big Bend Blvd. St. Louis	ST1-6432
NY	A. M. Stock Inc.	2801 Central Ave. Union City, NJ	4-2140
NY	E. Seelbach	Box 56, Kenmore Sta. Buffalo	DE4014
Ohio	Glatte & Co.	2012 W 25 St. Cleveland	TO1-0898
Pa	A. M. Stock Inc.	11 West Ave. Wayne	MO6-4838
Pa	Woessner-McKnight Co.	1310 Highland Bldg. Pittsburgh	EM1-2900
	PATTERSON FOUNDRY & MACHINE CO.	**East Liverpool, Ohio**	**FU5-2400**
Cal	M. O. Grove & Co.	310 Sacramento St. San Francisco 11	YU6-1611
Cal	R. E. Sidford	4710 Crenshaw Blvd. Los Angeles 43	AX3-6211
Ill	W. A. Gantt	338 N Central Ave. Chicago 44	ES9-5788
Md	P. L. Dolan	1805 Court Square Bldg. Baltimore 2	PL2-2977
Mich	H. Holland & Son, Inc.	10600 Puritan Ave. Detroit 38	UN2-5840
Mo	J. R. Zeuschel	7203 Manchester Ave. St. Louis 17	MI5-5003
NY	Kenneth S. Valentine, Inc.	111 W 83rd St. New York 24	TR3-6636
Ohio	R. E. Witherow	8020 Ackley Rd. Cleveland 29	TU6-3545
Ohio	J. M. Rahter	307 E 4th, Cincinnati 2	DU1-2338
Pa	W. H. Henszey	1623 Widener Bldg. Philadelphia 7	LO3-0215
Pa	C. H. Rust	295 Beverly Rd. Pittsburgh 16	FI1-5111
Tex	Mercer Engineers, Inc.	3302 Mercer St. Houston 27	JA6-1249
	PATTERSON WOOD RESEARCH DIV. LEESONA CORP.	**90-28 Van Wyck Exp. Jamaica 18, NY**	**AX7-4400**
	PAUL & STEIN BROS. INC., F. H.	**235 5th Ave. New York16, NY**	**MU4-6370**
	PECHINEY	**23 Rue Balzac, Paris 8ème, Fr**	
NY	Intsel	220 E 42nd St. New York 17	OX7-1331
	PEEBLES & CO., LTD. BRUCE, ELECTRONICS DIV.	**E Pilton, Edinburgh 5, Scot**	**GR66701**
Eng	B. Peebles & Co., Ltd.	56 Victoria St. London, S.W.1.	TA3551/4
Eng	B. Peebles & Co., Ltd.	95 Cornwall St. Birmingham 3	CE1389
Eng	B. Peebles & Co., Ltd.	Peter House, St. Peter's Sq, Manchester 1	CE6690
Eng	B. Peebles & Co., Ltd.	3 Windsor Cr. Jesmond, Newcastle-on-Tyne 2	NE81-2869

Eng	B. Peebles & Co., Ltd.	Permanent House, Headrow, Leeds 1	LE35447
Scot	B. Peebles & Co., Ltd.	26 Blythswood Sq. Glasgow C. 2	CE6677
W	B. Peebles & Co., Ltd.	28 Windsor Pl. Cardiff, Wales	CA25682
	PEELLE CO.	**47 Stewart Ave. Brooklyn 37, NY**	**EV6-7600**
Cal	Peelle Co.	Box 127, Sta 64, N Hollywood	HO4-3820
Ga	Atlanta Steel Erectors, Inc.	285 Hull St. NW, Atlanta 13	JA3-8241
Ill	Peelle Co.	4037 N Kedzie Ave. Chicago 18	IN3-4492
Ind	Peelle Co.	Box 97, Friends Sta. Richmond	5-1806
Ind	Engineering Metal Products	620 S Belmont Ave. Indianapolis 7	ME2-6592
Mass	R D Fogarty Co. Inc.	1211 Washington St. W Newton 65	DE2-5400
Mich	C O Harmon	415 Brainard St. Detroit	TE3-7440
Ohio	C C Huenefeld	626 Broadway, Cincinnati 2	GA1-2375
Ohio	C F Irelan	405 Caxton Bldg. Cleveland 15	PR1-0990
Pa	James R Pitcairn	511 Wood St. Pittsburgh 22	AT1-7544
Pa	Peelle Co.	34 S 17th St. Philadelphia	LO7-3603
Va	J. S. Archer Co.	1103 E Main St. Richmond 19	MI4-7848
	PEERLESS PUMP HYDRODYNAMICS DIV. FOOD MACHINERY & CHEMICAL CORP.	**301 West Ave. 26, Los Angeles 31, Cal**	**CA1-3151**
Cal	Peerless Pump-Hydrodynamics Div.	9 1st St. San Francisco 5	
Ill	Peerless Pump-Hydrodynamics Div.	53 W Jackson Blvd. Chicago 4	
Ind	Peerless Pump-Hydrodynamics Div.	2005 Northwestern Ave. Indianapolis 8	
NY	Peerless Pump-Hydrodynamics Div.	37 Wall St. New York 5	
	PENBERTHY INSTRUMENT CO.	**4301 6th Ave., S. Seattle 8, Wash**	**PA5-5402**
Wash	Penberthy Instrument Co.	6701 Maynard St. Seattle 8	PA5-5402
	PENN FIBRE & SPECIALTY CO.	**2020 E Westmoreland St. Philadelphia 34, Pa**	
	PENN RARE METALS, INC.	**Box 1-A, Revere, Pa**	**FE4-7711**
NY	Kawecki Chemical Co.	220 E 42nd St. New York 17	
	PENNSALT CHEMICALS CORP.	**3 Penn Center, Philadelphia 2, Pa**	**LO4-4700**
	PENNSYLVANIA FORGE DIV. CHEMETRON CORP.	**Milner & Bleigh, Phila 35, Pa**	**MA4-3666**
Ala	Tynes Brothers	American Life Bldg. Birmingham 1	FA2-7718
Cal	Rolph, Mills & Co.	371 4th St. San Francisco 7	SU1-1100
Conn	R. F. Svenik	327 Ridgewood Rd. W Hartford 7	AD3-3013
Ill	H. H. Pallat	112 N Green St. Chicago 6	HA1-0613
Mo	B. C. MacDonald & Co.	3829 W Pine Blvd. St. Louis 8	JE1-9266
NY	Atkinson & Utech, Inc.	117 Liberty St. New York 6	BA7-6793
NY	W. H. Knodel	153 Roberts Rd. Hamburg	FR9716
Ohio	W. R. McDonough & Co.	507 Term. Tower, Cleveland 13	PR1-1940
Pa	J. B. Kintner & Sons Co.	555 Union Trust Bldg. Pittsburgh 19	AT1-4823
Tex	L. H. Weller & Co.	3500 W Alabama, Houston 6	MO6-1526
	PENNA THRESHERMEN & FARMERS', MUT. CAS. INS. CO.	**1900 Derry St. Harrisburg, Pa**	**CE4-4941**
Md	Pa Threshermen & Farmers Mut. Cas. Ins. Co.	31 S Calvert St. Baltimore	LE9-4177
NC	Pa Threshermen & Farmers Mut Cas Ins Co	1038 Homeland Ave. Greensboro	BR5-6107
SC	Pa Threshermen & Farmers Mut. Cas. Ins. Co.	115 S Main St. Greer	TR7-4281
	PENNSYLVANIA TRANSFORMER DIV. McGRAW-EDISON CO.	**Connoisburg, Pa**	**SM5-9100**
	PERFORATED PRODUCTS, INC.	**181 Harvard St. Brookline 46, Mass**	**BE2-6044**
Cal	Perforated Products, Inc.	504 Main St. El Segundo	EA2-5055
	PERKIN-ELMER CORP. INSTRUMENT DIV.	**Main Ave. Norwalk, Conn**	**VI7-0411**
Cal	Perkin-Elmer Corp. Instrument Div.	348 W Foothill Blvd. Monrovia	EL9-3549
Cal	Perkin-Elmer Corp. Instrument Div.	1929 Irving St. San Francisco 22	OV1-8561
DC	Perkin-Elmer Corp. Instrument Div.	8055 13th St. Silver Spring, Md	JU8-9111
Ga	Perkin-Elmer Corp. Instrument Div.	3230 Peachtree Rd. NE, Atlanta	CE7-8664
Ill	Perkin-Elmer Corp. Instrument Div.	1 N LaGrange Rd. LaGrange	FL4-1846
Ohio	Perkin-Elmer Corp. Instrument Div.	20575 Center Ridge Rd. Rocky River 16	ED1-4277
Tex	Perkin-Elmer Corp. Instrument Div.	4410 Richmond Ave. Houston 27	MA3-5535
Can	Perkin-Elmer (Canada) Ltd.	2360 Lucerne Rd. Mount Royal, P.Q.	RI7-3518
	PERKIN ENGINEERING CORP.	**345 Kansas St. El Segundo, Cal**	**SP2-2171**
Ariz	Brooks, Feeger Associates	34-A E 1st St. Scottsdale	WH6-2111
Cal	Instruments for Measurement	3455 Cahuenga Blvd. Hollywood	HO9-7294
Colo	Brooks, Feeger Associates	3041 S Broadway, Englewood	SU1-1975
Fla	E. G. Holmes & Associates	1220 Edgewater Dr. Orlando	CH1-2128
Ind	Law Instruments	Box 95, Angola	217
Mass	Perkin Engineering Corp.	46 Amesbury St. Lawrence	MU3-3252
Mo	Design & Sales Engineering Co.	7603 Forsyth Blvd. St. Louis	PA1-6403
NJ	Gawler-Knoop Co.	178 Eagle Rock Ave. Roseland	CA6-4545
NY	D. B. Associates	Box 284, DeWitt	GI6-0220
Ohio	Electro Sales Associates	281 E 216th St. Euclid 23	RE2-7444
Tex	Wallace Associates	Box 13203, Dallas 20	FL7-7080
Wash	Testco	Boeing Field, Seattle 8	PA5-8000
	PERMAG CORP.	**88-06 Van Wyck Expwy, Jamaica 18, NY**	**OL7-1818**
Cal	Permag Pacific Corp.	2910 S La Cienega Blvd. Culver City	WE6-6251
	PERMAGILE CORP OF AMERICA	**34-43 56th St. Woodside, NY**	**TW9-4700**
Cal	Wilson Sales Co.	1485 Bayshore Blvd. San Francisco	JU6-7450
Fla	Lambert Corp. of Florida	2125 W Central Ave. Orlando	GA4-2871
Md	H. K. Heller	2523 Wilson Blvd. Arlington, Va.	JE2-3245
Mass	Hermos Corp.	270 Commonwealth Ave. Boston	KE6-8100
Minn	Protective Plastic Products Co.	2845 University Ave. St. Paul	MI5-8478
Mo	Railroad Concrete Products Co.	3724 Oxford Blvd. St. Louis	MI2-6448

NY	Permagile Distributors of N. Y.	61 W Merrick Rd. Valley Stream	VA5-4571
Ohio	Permagile Distributors of Ohio	6506 Schaefer Ave. Cleveland	EN1-6506
Pa	Permagile Distributors of Phila.	5648 Chew Ave. Philadelphia	GE8-0809
Tenn	Construction Products Co.	6000 Chapman Hwy. Knoxville	KN7-0443
Tex	Mavor-Kelly Co.	M. & M. Bldg. Houston	CA2-2203
Wash	Sheldon Dunning	311 1st Ave. W, Seattle 99	AT4-7540

PERMALI INC. ..... Box 718, Mt. Pleasant, Pa KI7-2353

Cal	R. S. Hughes Co., Inc.	4615 Alger St. Los Angeles 39	CH5-6621
Cal	R. S. Hughes Co., Inc.	564 College Ave. Palo Alto	DA6-2921
Colo	R. S. Hughes Co., Inc.	2811 W 9th Ave. Denver 4	CH4-4267
Ill	Permali, Inc.	5306 W Lawrence Ave. Chicago 30	SP7-3508
NY	Permali, Inc.	1547 Central Ave. Albany 5	IN9-7003
Wash	R. S. Hughes Co., Inc.	1107 Bailey St. Seattle 8	PA6-5150

PERMUTIT CO. DIV.
PFAUDLER PERMUTIT, INC. 50 W 44th St. New York 36, NY OX7-6600

Cal	The Permutit Co.	3028 S Brand Blvd. Glendale 4	CH5-2696
Colo	The Permutit Co.	1485 Holland St. Denver 15	BE7-2866
Ga	The Permutit Co.	3131 Maple Dr. NE, Atlanta 5	CE7-3321
Ill	The Permutit Co.	111 W Washington St. Chicago 2	ST2-2298
Kan	The Permutit Co.	7001 W 76th St. Overland Park	DU1-0272
Md	The Permutit Co.	8605 Cameron St. Silver Spring	JU9-3731
Mass	The Permutit Co.	50 Kearney Rd. Needham Hgts. 94	HI4-0052
Mich	The Permutit Co.	2111 Woodward Ave. Detroit	WO2-2689
Ohio	The Permutit Co.	2320 Victory Pkwy. Cincinnati 6	AV1-6052
Pa	The Permutit Co.	101 N 33rd St. Philadelphia 4	BA2-1600
Tenn	The Permutit Co.	848 McCallie St. Chattanooga 3	AM6-4544
Tex	The Permutit Co.	4101 San Jacinto St. Houston 4	JA3-1498

PESCHEL ELECTRONICS, INC. RFD 1, Patterson, NY

Cal	Abbott Instrument & Eng. Co.	10513 Santa Monica Blvd. LA 24	GR4-5310

PESCO PRODUCTS DIV. BORG-WARNER CORP.
24700 N Miles Rd. Bedford, Ohio AX2-6100

Cal	Pesco Products	3310 Vanowen St. Burbank	VI9-5751
Cal	E. V. Roberts	5068 W Washington, Los Angeles	
DC	Pesco Products	World Center Bldg. Washington	NA8-1102
Kan	Pesco Products	6631 E Kellogg, Wichita	MU6-6609
Mo	E. Polowniak	1167 Fawnridge Dr. Kirkwood	
Tex	Scott Tech. Sales	Box 30324, Dallas	
Wash	A. E. Creek	10203 NE 1st St. Bellvue	

PFAUDLER CO. DIV. PFAUDLER PERMUTIT INC.
1000 West Ave. Rochester 3, NY

Cal	Pfaudler Sales Co.	157 13th St. San Francisco 3	UN1-7081
Cal	J. W. Koehler	302 S. S Brand Blvd. Glendale	CH5-5607
Ill	K. J. Lambert	111 W Washington St. Chicago 2	ST2-2122
Md	J. D. Libbey	8605 Cameron St. Silver Spring	JU9-3731
Mass	W. D. Clark	50 Kearney Rd. Needham Heights 94	NE3-5450
Mich	D. A. Bradbury	720 Francis Palms Bldg. Detroit 1	WO3-6846
Mo	E. H. Schwaig	818 Olive St. St. Louis 1	CE1-2889
NJ	J. S. Volpi	33 Newark St. Hoboken	OI9-1933
Ohio	J. E. Blair, Jr.	2320 Victory Pkwy. Cincinnati 6	AV1-6053
Pa	C. M. Fletcher	33rd & Arch Sts. Philadelphia 4	BA9-7474
Pa	H. J. Grieve	4625 Clubview Dr. Pittsburgh 36	TU2-9073
Tex	J. P. Voorhies	4101 San Jacinto, Houston 6	JA2-8505

PFIZER & CO., INC., CHARLES 630 Flushing Ave. Brooklyn 6, NY EV8-3800

Cal	C. Pfizer & Co., Inc.	4820 Loma Vista Ave. Los Angeles	LU3-4122
Cal	C. Pfizer & Co., Inc.	1500 16th St. San Francisco	HE1-9702
Ga	C. Pfizer & Co., Inc.	5251 Peachtree Ind. Blvd. Chamblee	GL7-8231
Ill	C. Pfizer & Co., Inc.	6460 W Cortland St. Chicago	TU9-6161
NJ	C. Pfizer & Co., Inc.	230 Brighton Rd. Clifton	PR3-5500
Tex	C. Pfizer & Co., Inc.	7600 Ambassador Rd. Dallas	FL7-3901

PHAOSTRON INSTRUMENT & ELECTRONIC CO ..... 151 Pasadena Ave. South Pasadena, Cal .. CL5-1471

Cal	F. A. Emmet Co.	1810 Fair Oaks, South Pasadena	MU2-3721
Cal	L. A. Nott Co.	1061 Howard St. San Francisco	HE1-4738
Conn	H. Lavin Assoc.	Box 196, Meriden	BE7-5527
Ga	M. K. Smith Co.	208 14th St. NW, Atlanta	TR5-8031
Ill	G. McL. Cole Co.	6514 W Higgins Rd. Chicago 31	SP4-3535
Mich	G. Shaffer Co.	14241 Fenkell Ave. Detroit 27	BR2-5390
Mo	R. W. Farris Co.	406 W 34th St. Kansas City 11	FL3-5350
NY	Phaostron	527 Lexington Ave. New York City 17	PL3-2272
NY	W. H. Zimmerman	112 Dewitt St. Syracuse 3	GR4-4889
Ohio	A. Nace Co.	7601 Parkview Rd. Brecksville	JA6-4323
Pa	J. Bresson Associates	246 Haverford Ave. Narberth	GR7-3805
Tex	Kock Eng. Sales Co.	309 Meadows Bldg. Dallas 6	EM1-1769

PHELPS DODGE COPPER PRODUCTS CORP. 300 Park Ave. New York 22, NY PL 1-3200

Cal	Phelps Dodge	6100 S Garfield Ave. Los Angeles 22	PA1-1191
Colo	Phelps Dodge	621 17th St. Denver 2	CH4-9291
Fla	Phelps Dodge	Florida Title Bldg. Jacksonville 2	EL5-7223
Ga	Phelps Dodge	903 Candler Bldg. Atlanta 3	MU8-2322
Ill	Phelps Dodge	100 W Monroe, Chicago 3	FR2-6336
Ind	Phelps Dodge	4400 New Haven Ave. Ft. Wayne 1	EA0511
Mass	Phelps Dodge	175 Albany St. Cambridge 39	EL4-7655
Mo	Phelps Dodge	1221 Locust St. St. Louis 3	CH1-4110
Ohio	Phelps Dodge	50 Public Sq. Cleveland 13	PR1-2666
Ore	Phelps Dodge Copper	1436 NW 16th Ave. Portland 9	CA6-6117
Pa	Phelps Dodge	3106 W Allegheny Ave. Philadelphia 32	BA5-6600
Tex	Phelps Dodge	3113 McKinney Ave. Dallas 4	RI7-7089

PHILADELPHIA GEAR CORP. King of Prussia, Pa BR9-7100

Cal	R. J. Dale	507 E Alondra Blvd. Gardena	FA1-0346
Ill	E. C. Thompson	20 N Wacker Dr. Chicago 6	ST2-9464
Md	J. F. Ottinger	4109 Westview Rd. Baltimore	HO7-1345
NY	Philadelphia Gear Corp.	330 W 42nd St. New York	BR9-4969
Pa	G. Nairn, Jr.	1201 Bankville Rd. Pittsburgh	LE1-5405
Tex	S. Womack	4902 Travis St. Houston 2	JA6-2727

PHILADELPHIA QUARTZ CO. 1146X Public Ledger Bldg. Phila 6, Pa ... MA7-7200

Ill	Philadelphia Quartz Co.	905 W Wacker Dr. Chicago 6	ST2-7734

PHILBRICK RESEARCHES, INC. GEORGE A.
127 Clarendon St. Boston 16, Mass CO6-5375

Cal	Tech-Ser, Inc.	3540 Wilshire Blvd. Los Angeles 5	DU5-1765
Colo	Hytronic Measurements, Inc.	1295 S Bannock St. Denver 23	PE3-3701
Fla	W. A. Brown & Associates, Inc.	201 Capron Rd. Indian River City	AM7-0411
Ill	H. Marsland & Co.	6699 Lincoln Ave. Chicago 45	OR6-1100
Mass	Instrument Dynamics, Inc.	11 Albion St. Wakefield	CR6-5100
NY	D B Associates, Inc.	Box 284 DeWitt	GI5-0220
NY	Crane & Egert Corp.	97 Reade St. NY 13	WO4-5996
Ohio	M. P. Odell Co.	26614 Center Ridge Rd. Westlake	TR1-8000
Tex	J. Y. Schoonmaker Co., Inc.	5328 Redfield Ave. Dallas	LA6-7238
Wash	Stanley Enterprises	127 River St. Seattle 8	PA3-3020
Can	The Ahearn & Soper Co. Ltd.	850 Belfast Rd. Ottawa	
For	Terminal Radio Int. Ltd.	240 W 17th St. New York 17, NY	CH3-5380

PHILCO CORP. 4700 Wissahickon Ave. Phila 44, Pa VI3-4000

Cal	Western Development Labs.	3875 Fabian Way, Palo Alto	DA6-4350
DC	Philco Corp.	1707 H St. NW, Washington 6	EX3-1500
Pa	Computer Division	3900 Welsh Rd. Willow Grove	OL9-7700

PHILCO CORP. LANSDALE TUBE DIV. Church Rd. Lansdale, Pa UL5-4681

Cal	Philco Lansdale Div.	3045 Rosecrans St. San Diego 10	AC4-2151
Cal	Philco Lansdale Div.	1435 S La Cienega Blvd. Los Angeles 35	OL5-7505
Cal	Philco Lansdale Div.	3875 Fabian Way, Palo Alto	DA6-4350
DC	Philco Lansdale Div.	1707 H St. NW, Washington	EX3-1500
Fla	Philco Lansdale Div.	310 S Bumby St. Orlando	CH1-6751
Ill	Philco Lansdale Div.	6057 N Ave. Oak Park	ES8-7270
Mass	Philco Lansdale Div.	43 Bay State Rd. Boston	CO6-1008
Minn	Philco Lansdale Div.	1821 University Ave. St. Paul 4	MI5-2117
NY	Philco Lansdale Div.	205 Harrison St. Syracuse	HA2-1623
NY	Philco Lansdale Div.	209 Willis Ave. Mineola	PI7-0545
Ohio	Philco Corp., Lansdale Div.	1st & Ludlow Sts. Dayton 2	BA4-6578
Pa	Philco Lansdale Div.	100 Old York Rd. Jenkintown	TU7-4344

PHILIPS ELECTRONIC INSTRUMENTS 750 S Fulton Ave. Mt. Vernon, NY ... MO4-4500

Cal	Philips Electronic Instruments	1299 Bayshore Hwy. Burlingame	
Cal	Braun-Knecht-Heimann Co.	1400 16th St. San Francisco 19	HE1-8900
Colo	Technical Equipment Corp.	917 Acoma St. Denver 4	MA3-0258
DC	J. J. Maguire Co.	742 Investment Bldg. Washington 5	NA8-4247
Ga	Philips Electronic Instruments	3120 Maple Dr. NE, Atlanta 5	CE7-9455
Ill	Philips Electronic Instruments	5535 W Montrose Ave. Chicago 41	AV2-1414
Ohio	Harshaw Scientific Div.	1945 E 97th St. Cleveland 6	VU3-3424
Pa	Pitchford Scientific Inst. Corp.	501 Castle Shannon Blvd. Pittsburgh 34	LO3-2626
Pa	Philips Electronic Instruments	1825 Grant Ave. Philadelphia 15	OR3-0900
Tex	Philips Electronic Instruments	3230 Mercer St. Houston 27	JA6-5932
Wis	Larpen Industries, Inc.	5512 W State St. Milwaukee 8	SF1-3060
Can	Philips Electronic Ind. Ltd.	116 Vanderhoof Ave. Toronto 17, Ont.	HU5-8621

PHILIPS' GLOEILAMPENFABRIEKEN, N. V. SCIEN. EQUIP. DEPT.
Eindhoven, Neth E160.000

Sales & Servic Organizations in all countries.

PHILLIPS & BOSON LTD. ..... Railway Terr. Flatham, Middx. Eng

PHILLIPS CONTROL CORP. ... 59 W Washington St. Joliet, Ill. 3-3431

PHILLIPS CONTROL (GB) LTD. 273 Farnborough Rd. Farnborough, Hants, Eng FA1120

Ill	Phillips Control Corp.	Joliet	JO3-3431

PHILLIPS-DRUCKER, INC. ..... Rt. 1, Box 916B, Astoria, Ore. FA5-3241

PHOENIX-RHEINROHR A G ... August-Thyssen Str. 1, Dusseldorf, Ger ... 8241

NY	Phoenix-Rheinrohr Corp.	375 Park Ave. New York 22	

PHOENIX STEEL CORP. ..... 121 Bridge St. Phoenixville, Pa WE3-8911

Cal	District Steel, Inc.	8249 Sheila St. Los Angeles 22	AN3-2149
Ill	Select Metal Products Co.	5675 N Elston Ave. Chicago 46	NE1-8800
Md	Phoenix Steel Corp.	6220 N Charles St. Baltimore 12	DR7-6100
Mich	L. P. Andrews Co.	701 Stephenson Bldg. Detroit 2	TR5-0661
Mo	Industrial Products	3966 Lindell Ave. St. Louis	JE3-1919
NJ	A. B. Seither Co.	Box 15, Moorestown	HE5-2340
NY	Phoenix Steel Corp.	25 Broadway, New York 4	WH4-3336
NY	Phoenix Steel Corp.	State Tower Bldg. Syracuse 2	GR4-3401
Ohio	F. H. Grace Co.	2900 Lee Road Bldg. Cleveland Heights 18	FA1-2045
Tex	J. McConnell	Box 25031, Houston 4	JA4-1705
Can	V. J. Leo	1000 Wellington St. Montreal, Quebec	HUI-0336

PHOTOBELL CO., INC. ..... 43 Vesey St. New York 7, NY WO2-6739

PHOTOCON RESEARCH PRODUCTS 421 N Altadena Dr. Pasadena, Cal SY2-4131

Fla	Col-Ins-Co.	5728 Precision Dr. Orlando	CH1-1501
NJ	J. W. Dice Co.	16 Highwood Ave. Englewood	LO5-0471

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	PHOTRON INSTRUMENT CO.	**6516 Detroit Ave. Cleveland 2, Ohio**	**AT1-7020**
Cal	Carruti & Associates	Box 21, Redwood City	EM9-3354
DC	S & S Associates, Inc.	Box 6, King of Prussia	BR9-7192
Ill	Anderson Automation	16 E View St. Lombard	MA7-1094
Md	S & S Associates, Inc.	Box 6, King of Prussia	BR9-7192
Mass	L. R. Provencher & Associates	525 Pleasant St. Worcester 2	PL3-8187
NJ	J. Williams Associates	50 Main St. Orange	OR5-7199
NJ	S & S Associates, Inc.	Box 6, King of Prussia	BR9-7192
NY	J. Williams Associates	50 Main St. Orange	OR5-7199
Ohio	B. L. Michaelson Co.	315 N Monroe St. Xenia	DR2-5496
Pa	S & S Associates, Inc.	Box 6, King of Prussia	BR9-7192
Tex	Ecklund Electronic Sales	Box 12151, Ft. Worth	PE8-9773
Can	Electromechanical Products	Markham Rd. Agincourt, Ont.	AX3-7011
	PHYSICAL SCIENCES CORP.	**389 N Fair Oaks, Pasadena, Cal**	**MU1-5644**
	PHYSICS RESEARCH LABS. INC.	**Box 555, Hempstead, NY**	**IV3-8299**
Cal	W. K. Geist Co.	3177 Glendale Blvd. Los Angeles	NO5-1195
Mass	Addelco Corp.	1826 Centre St. W Roxbury	FA5-7940
Minn	P. Lind Electronics	9781 Western Ave. Circle Pines	SU4-3837
Mo	Zak & Associates	7730 Carondelet, St. Louis 5	PA7-5550
NJ	R. E. Weber Co.	15 Terry Ln. East Brunswick	CL7-5243
	PHYSIQUE INDUSTRIELLE S. A.	**66 Bvd. de l'Imperatrice, Brussels 1, Belg**	**11.98.08**
Afr	Intair-Congo, s.c.r.l.	Box 7099, Leopoldville	2014
	PICKARD-WARREN-LOWE ASSOC.	**1025 Conn Ave. NW, Wash 6, DC**	**ST3-1493**
	PICKER & HARTING VERTRIEB GmbH	**Espelkamp-Mittwald, Krs. Lubbecke, Westfalen, Ger**	**ES-273**
	PICKER X-RAY CORP.	**25 S Broadway, White Plains, NY**	**WH8-6000**
Cal	Picker X-Ray Corp.	710 S Lake St. Los Angeles	DU8-2366
Col	Picker X-Ray Corp.	1207 E 13 Ave. Denver	
DC	Picker X-Ray Corp.	2025 Eye St. NW, Washington 6	DI7-3037
Ga	Picker X-Ray Corp.	1477 Spring St. NW, Atlanta	TR6-6355
Ill	Picker X-Ray Corp.	1010 W Jackson Blvd. Chicago	HA1-5161
La	Picker X-Ray Corp.	1220 St. Charles Ave. New Orleans	MA4842
Mass	Picker X-Ray Corp.	12 Wirth St. Boston	ST2-9603
NY	Picker X-Ray Corp.	55 James St. Rochester	HA6-4410
Ohio	Picker X-Ray Corp.	1503 Warrensville Center Rd. Cleveland	EV2-4880
Pa	Picker X-Ray Corp.	3333 W Hunting Park, Philadelphia	BA8-3406
Can	Picker X-Ray Corp.	24 Canfield Rd. Toronto, Ont	PL9-2251
	PILOT CHEMICALS, INC.	**Dept N 36 Pleasant St. Watertown 72, Mass**	**WA4-7775**
	PINTSCH BAMAG AG	**Postfach 11, Betzdorf, Germany**	
NY	Columbia Technical Corp.	61-02 31st Ave. Woodside 77	AS8-7401
	PIONEER CENTRAL DIV. BENDIX CORP.	**Hickory Grove Rd. Davenport, Iowa 4-9101**	
Cal	E. N. Fitch	117 E Providencia Ave. Burbank	VI9-3961
Ill	J. Chambers	2198 N Hudson, Chicago 14	LA5-5561
Md	T. B. Baldridge	946 Mayberry Ln, Conshohocken, Pa.	TA8-9647
Mass	C. Schulzt	79 Edgewood Ave. Walpole	MO8-2764
Mich	R. Reynolds	1814 Banbury, Birmingham	VE7-6832
Minn	H. O. Dow Co.	604 W 26th St. Minneapolis	TA5-6891
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis	PA6-2233
NY	R. W. Murray	64 Colvin, Hamburg	EM1582
Ohio	C. K. M. Industrial Sales	4407 Brazee, Cincinnati	EA1-2880
Pa	E. M. Schoemmell	221 Friendship Rd. Drexel Hill	SU9-9536
Tex	Southwest Eng. & Equip. Co.	4045 Lemmon Ave. Dallas	LA6-7433
Wis	A. J. Ulichny Mach. & Tool Co.	10031 W Lisbon Ave. Milwaukee	HO3-4650
	PIONEER DESIGNS LTD. SERVOKITS DIVISION	**6 Hampton Ct Par. E Molesey, Surr, Eng**	**MO2810**
	PIONEER-RUBBER CO.	**Tiffin Rd. Willard, Ohio**	**WI933-2211**
Cal	Pacific States Rubber Co.	644 N Vermont Ave. Los Angeles 54	NO2-8181
Tex	Pioneer Rubber Co. of Texas	1515 Dragon St. Dallas 7	RI8-3403
	PIONEER SERVICE & ENG. CO.	**231 La Salle St. Chicago 4, Ill**	
	PITTSBURGH-DES MOINES STEEL CO.	**Neville Island, Pittsburgh 25, Pa.**	**FE1-3000**
Cal	Pittsburgh-Des Moines Steel Co.	Box 2012, El Monte	GI4-2675
Cal	Pittsburgh-Des Moines Steel Co.	Box 329, Santa Clara	AX6-0868
Colo	Pittsburgh-Des Moines Steel Co.	323 Rwy. Exchange Bldg. Denver 2	MA3-1018
Ga	Pittsburgh-Des Moines Steel Co.	361 E Paces Ferry Rd. NE, Atlanta 5	CE7-3779
Ill	Pittsburgh-Des Moines Steel Co.	679 1st Natl. Bank Bldg. Chicago 3	ST2-2252
Iowa	Pittsburgh-Des Moines Steel Co.	1015 Tuttle St. Des Moines 8	CH3-3261
Md	Pittsburgh-Des Moines Steel Co.	Box 3450, Curtis Bay Sta. Baltimore 26	ST9-8000
NY	Pittsburgh-Des Moines Steel Co.	200 E 42nd St. New York 17	MU7-4760
Pa	Pittsburgh-Des Moines Steel Co.	Box 660, Warren	WI5-0250
Tex	Pittsburgh-Des Moines Steel Co.	Southland Center, Dallas 1	RI2-4524
Utah	Pittsburgh-Des Moines Steel Co.	Box 310, Provo	FR3-8150
Wash	Pittsburgh-Des Moines Steel Co.	500 Wall St. Seattle 1	MU2-6878
	PITTSBURGH LECTRODRYER DIV. McGRAW-EDISON CO.	**300 32nd St. Pittsburgh 30, Pa**	**GR1-8782**
Ala	D. B. Gooch Associates Inc.	5018 1st Ave. N Birmingham	LY2-8191
Cal	Stiehl & Co.	7424 S Garfield Ave. Bell Gardens	TO6-6111
Cal	Stiehl & Co.	605 Addison St. Berkeley 10	TH3-6826
Ill	Pgh. Lectredryer Div. McGraw-Edison Co.	18 Plaza, Park Forest	PI8-4828
La	Equitable Equipment Co.	410 Camp St. New Orleans 12	RA9744
Mass	Engineering Sales Co.	Box 59, Newton 62	CE7-9590
Mich	Kerr Machinery Co.	Kerr Bldg. Detroit 28	WO1-0590
Mo	Midvale Mining & Mfg. Co.	5015 Manchester Ave. St. Louis 10	FR1-2442
NY	J. F. Kern & Co., Inc.	481 7th Ave. New York 1	LO5-0827
Ohio	F. F. Eiseman	627 Hanna Bldg. Cleveland 15	TO1-0642
Pa	G. Kelso	7046 Garret Rd. Upper Darby	FL2-1350
Tex	Southwestern Eng. & Equipt. Co.	4045 Lemmon Ave. Dallas 19	LA6-7433
	PITTSBURGH PIPING & EQUIPMENT CO.	**158 49th St. Pittsburgh, Pa.**	**MU3-1000**
Ga	P. H. Nichols & Co.	400 Whitehead Bldg. Atlanta 3	JA4-4921
Ill	Pittsburgh Piping & Equip Co.	122 S Michigan Ave. Chicago 3	HA7-7258
NY	Pittsburgh Piping & Equip. Co.	233 Broadway, New York 7	CO7-6178
	PITTSBURGH PLATE GLASS CO.	**632 Fort Duquesne Blvd. Pittsburgh 22, Pa**	
	PITTSBURGH TESTING LAB.	**1330 Locust St. Pittsburgh 19, Pa.**	**GR1-3860**
Ala	Pittsburgh Testing Lab.	900 6th Ave. N, Birmingham 4	FA4-7624
Cal	Pittsburgh Testing Lab.	651 Howard St. San Francisco 5	EX2-1747
Fla	Pittsburgh Testing Lab.	519 N Delaware Ave. Tampa 6	8-5341
Fla	Pittsburgh Testing Lab.	2436 Dennis St. Jacksonville 4	EL5-4626
Ill	Pittsburgh Testing Lab.	4400 W Chicago Ave. Chicago 51	BE5-1240
Ind	Pittsburgh Testing Lab.	3921 E New York St. Indianapolis 1	FL6-2451
La	Pittsburgh Testing Lab.	724 Central Ave. New Orleans 21	VE5-0341
Mo	Pittsburgh Testing Lab.	4573 Chouteau Ave. St. Louis 10	OL2-4420
NY	Pittsburgh Testing Lab.	1565 Kenmore Ave. Buffalo 23	VI2595
NC	Pittsburgh Testing Lab.	4609 W Market St. Greensboro	CY9-0535
Tex	Pittsburgh Testing Lab.	150 Payne St. Dallas 7	RI8-9361
Utah	Pittsburgh Testing Lab.	2320 SW Temple St. Salt Lake City 15	HU4-8827
	PLANCHETS	**Box 216, Chelsea, Mich**	**GR9-1421**
	PLANER LTD., G. V.	**Windmill Rd. Sunbury-on-Thames, Middx. Eng**	**SU2266**
	PLASCO SAFETY PRODUCTS CO.	**Box 367, Springfield, Ohio**	
Cal	W. E. Kadel	11732 Wembley Rd. Los Alamitos	GE1-3664
Mass	H. L. Sherman	1207 Main St. Reading	94-43286
Mo	W. Kliefoth	6611 Clayton Rd. St Louis	PA5-8698
	PLASMADYNE CORP	**3839 S Main St. Santa Ana, Cal**	**KI5-7171**
Cal	C. Herrmann Associates	551 E Walnut St, Pasadena	MU1-5111
Conn	W. W. Jarowey Co.	Box 6164, Hamden 17	
Fla	S. S. Lee Associates	Box 7896, Orlando	CH1-1445
Ill	Maher Engineering co.	4335 W Peterson Ave. Chicago 30	PE6-8747
Mich	The Satullo Co.	4514 N Woodward Ave. Royal Oak	LI9-3910
Minn	Pinkney & Hine	1925 Nicollet Ave. Minneapolis	FE8-0523
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis 30	PA6-2233
Pa	The Lowry Dietrich Co.	703 Clairton Blvd. Pittsburgh 36	WA1-2959
Tex	Southwestern Eng. & Eqpt. Co.	4045 Lemmon Ave. Dallas 19	LA6-7433
	PLASTIC CAPACITORS, INC.	**2620 N Clybourn Ave. Chicago 14, Ill**	
Cal	Richard A Strassner Co.	1557 N Western Ave. Los Angeles 27	
Conn	Henry Lavin Associates, Inc.	Box 196, Meriden	
Fla	Mark Electronic Sales Co.	410 Northeast 147th Ter. N Miami 61	
Ill	D Dolin Sales	3553 W Peterson Ave. Chicago 45	
Mich	F A Villani	7008 Rosemary, Dearborn 6	
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis 30	
NJ	M Leff Sales	11 Peppermint Ln. Levittown	
NY	Midstate Research Sales, Inc.	327 Wellesley Rd. Syracuse 7	
NY	Dave Sonkin Associates	10 Fiske Pl. Mt. Vernon	
Ohio	Electro-Com	1231 Main Ave. Cleveland 13	
Tex	Packard Associates	Love Field Terminal Bldg. Dallas 35	
Can	Lake Engineering Co. Ltd.	123 Manville Rd. Scarborough, Ont.	
	PLASTICSMITH, INC.	**Box 1071, Pittsburg, Cal**	**PL7-5660**
Ill	G. K. Feliu	2708 Western Ave. Park Forrest	PI5-3007
	PLASTIMAYD CORP	**2204 SE 7th Ave. Portland 14, Ore**	**BE2-5101**
	PLENTY & SON LTD. EAGLE IRON WORKS	**Newbury, Berks, Eng**	**NE2363**
	PLESSEY NUCLEONICS LTD	**Woodon Rd, Northampton, Eng**	
NY	Plessey, Inc.	41 E 42nd St. New York 17	
Aus	Natl. Instrument Co. Pty. Ltd.	390 Flinders St. Melbourne C.1	
Can	The Plessey Co. of Canada, Ltd.	243 Dunbar Ave. Que	
Den	Insco Electronics A/S	Glentevej 53, Copenhagen N.V.	
Fr	Precision Mecanique Labinal	146 Blvd. Haussmann, Paris	
Gr	Gimet & Co.	38 Omirou St. Athens	
Holl	Plessey International, Ltd.	Box 1467, Amsterdam	
Ind	A. R. Haseler (Private), Ltd.	Ballard Estate, Bombay 1	
Ital	Bay & Co. S.p.A.	Via Manin 33, Milan (133)	
NZ	W. J. Blackwell	5a City Rd, Auckland	
S Afr	Protea Holdings, Ltd.	42 Faraday St. Wemmer, Johannesburg	
Swed	Hammar & Co. A. B.	Strandvagen 58, Stockholm 0	
	PLOWDEN & THOMPSON, LTD.	**Stourbridge, Worcs, Eng**	**ST3390**
	PODBIELNIAK INC.	**341 E Ohio St. Chicago 11, Ill**	**SU7-5000**
	POETSCHKE & CO. OHG	**Box 2764, Frankfurt/Main 1, Ger**	**0621-551688**
	POLARAD ELECTRONICS CORP.	**43-20 34th St. Long Island City 1, NY**	
Ala	Murphy & Cots	250 Governors Dr. SE, Huntsville	JE6-9121
Cal	T. L. Snitzer Co.	7814 Ivanhoe Ave. LaJolla	GL4-2191
Colo	McLoud & Raymond	4403 E Evans Ave. Denver	SK6-1589
Conn	G. Gregory Associates	Box 243, Cheshire	AT8-2900
DC	Brimberg Associates	221 Investment Bldg. Washington	DE2-8000
Ill	L. F. Green & Associates	8218 W Diversey Ave. Chicago	PA5-6824

Iowa	Engineering Services Co.	1305 Oakland Gardens, Cedar Rapids	EM5-6183
Md	Eastern Associates	808 Ingleside Ave. Baltimore	MA4-3676
Mich	Harvey Teplitz & Co.	19942 Inkster Rd. Detroit	KE7-9068
NY	Naco Electronics Corp.	119 Luther Ave. Liverpool	GR4-7481
Ore	Hawthorne Electronics	700 SE Hawthorne Blvd. Portland	
Tex	Industrial Associated Electronics	Box 10876, Dallas	RI8-0777

POLLAK CORP. JOSEPH ..... **85 Freeport St. Boston 22, Mass** **AV2-9550**

Ga	A. C. Craft, Jr.	Box 11716, Northside Sta. Atlanta	CE3-9944
Md	H. J. White Co. Inc.	204 W Penn Ave. Towson 4	VA8-6373
NJ	H. J. White Co. Inc.	121 Covered Bridge Rd. Haddonfield	HA8-2304
NY	The Ellis-Haber Corp.	11 Northern Blvd. Great Neck	HU7-5145
Ohio	A. D. Dircksen & Assoc.	Dabel Sta. Box 22, Dayton 10	UN2-7051
Tex	R. E. Dahlin	Box 2375, Dallas 21	LA1-2939

POLYMER CORP. ..... **2120 Fairmont Ave. Reading, Pa** **FR6-5791**

Cal	E. J. Brookes Co., Inc.	6601 Telegraph Rd. Los Angeles 22	RA3-8431
Cal	E. J. Brookes Co., Inc.	571 Howard St. San Francisco	YU6-2974
Conn	VanCleef & Co., Inc.	Box 247, Branford	HU8-1856
Ill	The Olymer Corp. of Penna.	3760 W Devon Ave. Chicago 45	CO7-8060
Mass	Black & Webster Sales, Inc.	570 Pleasant St. Watertown 72	WA6-0100
Mich	W. B. Conrad Co.	13438 Fenkell Ave. Detroit 27	BR3-4050
Minn	Eller Equipment Co.	1107 S 2nd St. Minneapolis 15	FE9-9226
Mo	F. H. Ring Co.	7400 Pershing Ave. St. Louis 30	VO3-2511
NJ	The Polymer Corp. of Penna.	19 Franklin Pl. Rutherford	WE3-2333
Ohio	S. W. Tarkington	214 Harvard Ave. Terrace Park	CH1-7010
Ohio	T. W. Hinkley	329 N Chestnut St. Ravenna	PR1-3434
Pa	J. E. Fordney	Box 248, Mars	CO1-2117

POLYPENCO LTD. ..... **68-70 Tewin Rd. Welwyn Gdn. City, Herts, Eng** **WE5581**

Eng	Polypenco, Ltd.	117 Swan Arc. Bradford 1, Yorks	BR3-2073

POLYPHASE INSTRUMENT CO. **E 4th St. Bridgeport, Pa** **BR9-4660**

Cal	J. S. Kempf Co.	10304 Prairie Ave. Inglewood 2	OR4-2165
Conn	N. W. Wells	15 Chatham Dr. S Norwalk	TE8-3111
Ill	Polyphase Instrument Co.	2054 N Cicero Ave. Chicago 39	ME7-7466
Md	Stemler Associates Co.	25 W Penna. Ave. Towson 4	VA8-8853
NJ	R. H. Hitchens	323 Homestead Ave. Haddonfield	HA9-2491
NY	Young Associates	907 Monroe Ave. Rochester 20	BR1-2136
NY	G. H. Welland	76-49 168th St. Flushing 66	OL8-4061

POOLE & CO. (SUTTON) LTD., R. A. **Willow Walk, Sutton, Surr, Eng.** **FA6121**

PORCELAIN PRODUCTS, CO. ... **225 N Patterson St. Carey, Ohio** **396-2211**

Cal	Allied Industries	412 Seaton St. Los Angeles	MA8-2244
Cal	G. A. Gray Co.	2720-17th St. San Francisco	HE1-1826
Colo	K. B. Schumann Co.	1073 Galapago St. Denver 4	AC2-8913
Ga	G. R. Koeln & Co.	144 Walker St. SW, Atlanta 3	MU8-7077
Ky	L. P. Chick & Co., Inc.	1551-55 S 10th St. Louisville	ME5-7911
Mass	Electrical Agencies, Inc.	49-51 D St. Boston 27	AN8-9300
Mich	J. J. Miner Co.	4857 St. Aubin, Detroit 7	TE3-5686
Mo	D. J. Painter	Box 3434, St. Louis	MI7-3937
NY	L. P. O'Brien Sales Co.	801 2nd Ave. New York 17	MU4-5425
Pa	Crescent Sales Co., Inc.	4830 McKnight Rd. Pittsburgh 9	FO4-3700
Tex	G. E. Anderson Co.	1901 Griffin St. Dallas 2	RI1-5931
Wis	A. G. Smith	1315 Mierow Ln. Brookfield	SU6-7682

POSEN & KLINE TUBE CO. INC. **Whitehall & Twnshp. Line, Harrisburg, Pa** **BR5-2734**

POTTER AERONAUTICAL CORP. **Rt. 22, Union, NJ** **MU6-3810**

Cal	Potter Pacific	22540 Ventura Blvd. Woodland Hills	DI6-5666
Cal	Potter Aeronautical Corp.	5738 Marconi Ave. Carmichael	IV7-6858
Ga	Potter Aeronautical Corp.	254 E Paces Ferry Rd. NE, Atlanta 5	CE3-4719
Mass	Potter Aeronautical Corp.	Box 463, N Wilmington	OL8-4394
Ohio	Potter Aeronautical Corp.	3898 Linden Ave. Dayton 10	CL6-0171
Okla	Potter Aeronautical Corp.	1341 S Boston, Tulsa	LU2-6355
Can	Potter Aeronautical Corp.	465 Wentworth Ave. Ottawa, Ont.	PA2-5535

POTTER & BRUMFIELD, INC. DIV. AMF **Princeton, Ind** **FU5-5251**

Cal	C. E. Ault Associates	120 Santa Margarita Ave. Menlo Park	DA6-1760
Cal	Len-Bar Co. Electronics	5058 Faculty Ave. Lakewood	NE6-2275
Ill	Bierhaus-Balhorn Sales, Inc.	7185 W Armitage Ave. Chicago 35	TU9-5011
Mass	G.M. Hathaway Electronics, Inc.	238 Main St. Cambridge 42	KI7-0380
Mich	Buryl Hill, Inc.	15425 Schaefer Hwy, Detroit 27	VE8-3460
NJ	J. W. McCoy	300 Broadway, Camden	WO6-1800
NY	The R. F. Lamb Co.	3407 Delaware Ave. Buffalo 17	BE3757
NY	S. Wimpie Associates, Inc.	510 W Boston Post Rd. Mamaroneck	OW5-7100
NY	Cane Electric Corp.	Box 4127, Patroon Sta. Albany 4	HO2-5364
Ohio	Scott & Steffen, Inc.	1836 Euclid Ave. Cleveland 15	TO1-2626
Va	Potomac Electronics, Inc.	1025 N Royal St. Alexandria	TE6-9666
Wash	F. H. Haight Co.	3212 Eastlake Ave. Seattle 2	EA1818

POWELL CO., WM. THE ..... **2525 Spring Grove Ave. Cincinnati 22, Ohio** **DU1-4600**

Cal	The W. Powell Co.	3540 Wilshire Blvd. Los Angeles 5	
Cal	The W. Powell Co.	9 1st St. San Francisco 5	
Ill	The W. Powell Co.	205 W Wacker Dr. Chicago 6	
Mass	The W. Powell Co.	Box 338, Fayville	
Minn	The W. Powell Co.	2147 University Ave. St. Paul 14	
Mo	The W. Powell Co.	4063 Lindell Blvd. St. Louis 8	
NY	The W. Powell Co.	50 Church St. New York 7	
Ohio	The W. Powell Co.	1044 Hanna Bldg. Cleveland 15	
Ore	The W. Powell Co.	317 Builders Exchange Bldg. Portland 4	
Tex	The W. Powell Co.	3214 Mercer St. Houston 27	

POWER SERVICE CORP. ..... **2110 Nicollet Ave. Mpls, Minn.** **FE8-8623**

POWER SOURCES, INC. .... **Northwest Ind. Pk South Ave. Burlington, Mass** **BR2-3610**

Ala	Specialized Electronic Corp.	529 N 18th St. Birmingham 5	FA4-1615
Cal	J. E. Hachten Co.	1135 Huntington Dr. Arcadia	MU1-2361
Fla	W. B. Wimberly Co.	203 N Lucerne Cir. Orlando	GA5-3068
Ill	Gassner & Clark Co.	6644 N Western Ave. Chicago 45	RO4-6121
Mass	DeVeer Sales Engineering Co.	1492 Highland Ave. Needham 92	HI4-4290
Minn	Eng. Prods. Assoc.	1821 University Ave. St. Paul 4	MI6-3443
NY	ERA Inc.	340 Great Neck Rd. Great Neck	HU2-9320
NY	Reed-Tollefson Corp.	2815 Monroe Ave. Rochester 18	HI5-0450
Ohio	H. Teplitz & Co.	671 Sycamore Dr. Cleveland 32	RE1-5676
Pa	Danco Corp.	Fairview Village	CH8-1610
Wash	Paramount Tech. Agencies	9210 28th Ave. NW, Seattle 7	SU4-6447
Can	E. G. Lomas	227 Laurier Ave. Ottawa, Ontario	CE2-8504

POWERS REGULATOR CO. .... **3400 Oakton St. Skokie, Ill.** **CO7-6300**

POWERTRON ULTRASONICS CORP. **E Gate Blvd. Garden City, NY** **PI1-3220**

Ala	Specialized Electronics Corp.	Box 3385, Birmingham	
Cal	R. V. Weatherford Co.	6921 San Fernando Rd. Glendale	TH5-9551
Colo	H. Daiglas	651 S Jason St. Denver	SH4-2311
Ill	H. Gebhard Co.	5129 W Devon Ave. Chicago	RO3-3636
Ind	Delta Sales Co.	2136 E 52nd St. Indianapolis	
Md	H. A. Mc Cormick	Phoenix P. O. Cockeysville	CO2I4
Mass	Industrial Ultrasonics	Springfield	ST8-8987
Mich	Grant Shaffer Co.	14241 Fenkell Ave. Detroit	BR3-5290
Minn	Manufacturing Sales Co.	6301 Wayzata Blvd. Minneapolis	
Mo	G. S. Robins Co.	126 Chouteau Ave. St. Louis 2	
Ohio	A. N. Ulrich Co.	1251 Millerdale Rd. Columbus	BE7-3084
Tex	U. S. Equipment Sales	Box 18041, Houston	WA8-3487

PRATT CO., HENRY ..... **319 W Van Buren, Chicago 7, Ill** **WE9-0816**

Cal	H. Pratt Co.	3445 W 8th St. Los Angeles 5	DU1-1821
NY	H. Pratt Co.	30 Church St. New York 7	BE3-8972

PRAZISIONSMESSGERATE RSV **13b Hechendorf/Pilsensee, Ger.** **08186/7324**

PRECISION APPARATUS CO. INC. **70-31 84th St. Glendale 27, NY.** **TW4-4290**

Cal	Logan Sales Co.	154 8th St. San Francisco 3	
Cal	E. E. Strassner Co.	1865 N Western Ave. Los Angeles	
Colo	Nelson Co.	710 E Louisiana Ave. Denver 10	
DC	M. F. Taylor Co.	Box 111, Silver Spring, Md	
Ill	Felleisen Associates	5841 W Montrose Ave. Chicago 34	
Kan	McDowell-Redlingshafer Sales	1103 E Armour, Kansas City	
Mass	Mosher & Peyser Co.	945 Great Plain Ave. Needham 92	
NY	Kaelber & Mack	1 Park Ave. Manhasset	
NY	Marney Sales Co.	529 Merchants Rd. Rochester 9	
Ohio	F. A. Daugherty Co.	6025 Mayfield Rd. Cleveland 24	
Tex	H. Lieberman Co.	532 Fidelity Union Life Bldg. Dallas 1	
Wash	Northwestern Agencies	4130 1st Ave. S, Seattle	

PRECISION CASTPARTS CORP. **4600 SE Harney Dr. Portland 6, Ore** **PR5-4391**

Cal	District Sales Corp.	5348 Sheila St. Los Angeles 22	AN3-2149
Colo	Esco	3940 Grape St. Denver 7	DU8-5901
Conn	K. F. Thomas Co.	996 Farmington Ave. W Hartford 7	AD3-8547
Ill	Esco	1017 Griggs St. Danville	HI6-2210
Pa	K. F. Thomas Co.	730 N Easton Rd. Glenside	TU7-7400
Tex	J. D. Lobb, Jr.	5213 Jessamine St. Bellaire 101	MO4-0340

PRECISION CHEMICAL PUMP CORP. **1396 Main St. Waltham, Mass.** **TW4-0399**

Cal	G. Huddleston	2964 E Gage Ave. Huntington Park	LU1-7921
Cal	T. Bull	109 Railroad Ave. San Mateo	DI2-7455
Fla	F. A. Hayden	7 S E 12th St. Ft. Lauderdale	JA4-2935
Ill	J. P. Anthony	9416 Greenwood Dr. Des Plaines	VA4-0401
Tex	J. Ferguson	1635 Richmond Ave. Houston	JA9-0822

PRECISION EXTRUSIONS, INC. **720 E Green Ave. Bensenville, Ill** **PO6-0340**

Ill	J.E. Hill	Chicago	NA5-4600
Ind	H. C. Barrett	6216 Carrollton Ave. Indianapolis	CL1-8535
Mich	F. Buist, Jr.	190 Monroe Ave. NW, Grand Rapids 2	GL6-1982
Mich	B. C. Ladendorf	20780 Mack Ave. Detroit 36	TU1-5400
Minn	J. R. Lindquist	Box 8385, Minneapolis 26	WA2-6888
Wis	R. W. White	3416 N Farwell Ave. Milwaukee 11	BR2-1307

PRECISION MECHANISMS CORP. **577 Hewbridge Ave. East Meadow, NY** **IV3-8955**

Cal	Components Sales California	4626 Van Nuys Blvd. Sherman Oaks	ST9-4550
NY	Components Sales Corp.	218 E Hartsdale Ave. Hartsdale	SC5-1050

PRECISION RADIATION INSTRUMENTS **5810 S. Hermosita, LA 44, Cal** **PL33501**

NY	Terminal Radio Intl. Ltd.	240 W 17th St. New York 11	CH3-5200
For	Terminal Radio Intl. Ltd.	240 W 17th St. New York 11, NY	CH3-5200

PRECISION TUBE CO., INC. **Church Rd. & Wissahickon Ave. North Wales, Pa** **OX9-4806**

Cal	Hundley Co.	3282 Fletcher Dr. Los Angeles 65	CL6-7111
Ga	J. A. Downey Co.	2701 Addison Dr. Doraville	GL7-7387
Ill	O. Bussenius & Co.	80 E Jackson Blvd. Chicago 4	HA7-0080
Mo	D. Boettler Co.	6625 Delmar Blvd. St. Louis 5	PA1-4607
Ohio	S. E. Anning Co.	822 Delta Ave. Cincinnati 26	EA1-2711
Ohio	F. H. Grace & Co.	2000 Lee Rd. Cleveland 18	FA1-2045
Tex	M. Daggett, Jr.	Box 30182, Dallas 30	EM8-2871
Wash	V. E. Johnson Co.	2614 E 86th St. Seattle 15	LA4-4586

PRECO CHEMICAL CORP. ..... **589 Main St. Westbury, NY** **ED3-0700**

PREMIER METAL PRODUCTS CO. **337 Manida St. Bronx 59, NY** **WY1-6600**

Cal	Lebell-Warren Associates	1485 Bay Shore Blvd. San Francisco	JU6-7711

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Cal	A. J. Rissi	9417 E Las Tunas Dr. San Gabriel	AT6-1476
Conn	H. Lavin Associates	Box 196, Meriden	BE7-5527
Ill	Saffro & Associates	5209 N Kimball Ave. Chicago	JU8-[illegible]
Md	M. Leff Sales	1844 Edgewood Rd. Baltimore	
Mass	H. Lavin Associates	Needham	HI5-3446
Mo	Kay Sales Co.	2600 Grand Ave. Kansas City	BA1-3800
NY	D. Sonkin Associates	10 Fiske Pl. Mt. Vernon	MO8-[illegible]
Ohio	J. O. Olsen Co.	16201 Shaker Blvd. Cleveland	SK2-5444
Tex	Packard Associates	404 Lovefield, Dallas	FL7-5713
Utah	Gates & Co.	200 S Main St. Salt Lake City	EL9-1101
Wash	S. Stroum Co.	1612 Broadway, Seattle	EA3-6117
	PRESIN CO.	**2014 Broadway, Santa Monica, Cal**	**EX3-9718**
Conn	M. S. Coldwell, Inc.	289 Fairfield Ave. Hartford	JA2-5832
Fla	W. E. Wolcott Co.	Box 1523, Winter Park	MI7-1901
Mich	E & E Engineering, Inc.	15023 Harper Ave. Detroit 24	DR1-2000
Mich	Gaine Engineering	1474 E Outer Dr. Detroit 34	FO6-[illegible]
NY	J. Lightstone	515 Comstock Ave. Syracuse 10	GR4-1833
Ohio	S. Sterling Co.	15310 W McNichols Rd. Detroit 35, Mich	BR3-2900
Pa	S. Sterling Co.	15310 W McNicholas Rd. Detroit 35, Mich	BR3-2900
Pa	Holdsworth & Co.	426 S Springfield Rd. Clifton Hts.	MA6-8300
	PRESRAY CORP.	**Pawling, NY**	**UL5-9171**
Cal	Integrated Handling Systems	941 Charleston Rd. Palo Alto	DA1-3997
	PRICE ELECTRIC CORP.	**E Second & Church Sts. Frederick, Md**	**MO3-5141**
Cal	TransDynamics, Inc.	4450 Lakeside Dr. Burbank	VI9-[illegible]
Ill	R. C. Whitmore & Associates	520 N Michigan Ave. Chicago	MO4-1904
Ind	J. Murphy	202 Parn Rd. Meridan Meadows, Indpls	VI6-[illegible]
Md	J-H Electronic Sales Co.	Box 6844, Towson	VA5-4441
Mich	J. Morrow Sales	13149 Hamilton Ave. Highland Park	TO5-7600
Mo	R. B. Stahlhut	12760 Post Oak Rd. St. Louis	FA5-[illegible]
NY	Aerol Associates, Inc.	170 Great Neck Rd, Great Neck	HU7-9650
NY	J. V. Costello	639 S Warren St. Syracuse	HA2-0532
Ohio	G. T. Wright & Assoc., Inc.	Box 2950, Cleveland	ED1-[illegible]
Ohio	E. Magee & Co.	2600 Far Hills Bldg. Dayton	AX9-2333
Pa	L. D. Lowery, Inc.	50 E Wynnewood Rd, Wynnewood	MI2-9100
Tex	Southwest Electronic Industries	The Meadows Bldg. Dallas	EM3-1871
	PRITCHARD & CO., J.F.	**4625 Roanoke Pkwy. Kansas City, Mo**	**JE1-9500**
Cal	J. F. Pritchard & Co. of Cal	Merced	RA2-[illegible]
Ill	J. F. Pritchard & Co.	35 E Wacker Dr. Chicago	DE3-[illegible]
NY	J. F. Pritchard & Co.	405 Lexington Ave. New York	TU6-5561
Pa	J. F. Pritchard & Co.	905 Union Trust Bldg. Pittsburgh	EX1-0616
Tex	J. F. Pritchard & Co.	1818 Bank of the S.W. Bldg. Houston	CA2-9496
Can	Poole Pritchard Canadian Ltd.	2402-2A St. SE, Calgary, Alb.	AM6-8741
	PROCESS CONTROL GEAR LTD.	**Lattimore Rd. St. Albans, Herts, Eng**	
Eng	E. A. Leybourne & Co. Ltd.	Springwell, Gateshead 9	WA2251
Eng	J. D. Kendall	73 Carr Manor Ave. Leeds 17	LE[illegible]4752
Eng	G. Cornwell	21 Talbot Rd, Harrow Weald, Middlesex	HA5011
Eng	Western Industrial Eqpt. Ltd.	54 Queen Sq. Bristol 1	BR[illegible]
Eng	C. L. Owen Ltd.	Warren House, Magdalen Rd. Exeter	EX58218
Eng	D. C. Dixon	34 Bramcote Dr. Solihull, Warks.	
Eng	E. C. Kefford	Easterlea, Hambledon Rd. Denmead, Hants	WA2551
Eng	E. L. Bunlem	32 Pembridge Sq. London W.2	BA[illegible]
Ire	The Electrical Development Co.	78 Clifton St. Belfast	BE[illegible]
Scot	Kelsall Parsons & Co. Ltd.	226 W Regent St. Glasgow	CE7554
	PROCESS EQUIPMENT CO.	**150 Studebaker Rd. Tipp City, Ohio**	**HO7-2441**
	PROCESS EQUIPMENT CO. INC.	**71 Forest St. Brockton, Mass**	
	PROCESS FILTERS DIV. BOWSER INC.	**1302 Creighton Ave. Fort Wayne, Ind**	**HA2541**
Cal	Process Filters Div.	5711 Sheila St. Los Angeles 22	RA3-8468
Cal	Process Filters Div.	468 9th St. San Francisco	UN1-[illegible]
Ga	Process Filters Div.	741 Monroe Dr. NE, Atlanta 8	TR5-[illegible]
Mass	Process Filters Div.	25 Southwest Park, Westwood	DA6-6440
Mich	Process Filters Div.	17217 Wyoming, Detroit 21	UN4-4200
Minn	Process Filters Div.	2711 E Franklin, Minneapolis	FE6-[illegible]
Mo	Process Filters Div.	1205 Olive St. St. Louis	CE1-1622
NY	Process Filters Div.	420 Lexington Ave. New York 17	LE2-[illegible]
Ohio	Process Filters Div.	4209 W 150th St. Cleveland	WI1-9500
Pa	Process Filters Div.	225 W Lehigh, Philadelphia 33	GA5-6343
Pa	Process Filters Div.	544 Oliver Bldg. Pittsburgh	AT1-1695
Tex	Process Filters Div.	1706 Hinton, Dallas	FL7-3841
	PROCESS & INSTRUMENTS	**15 Stone Ave. Brooklyn 33, NY**	**GL7-[illegible]**
	PULSE ENGINEERING	**560 Robert Ave. Redwood City, Cal**	**CH8-6040**
	PULSOMER ENGINEERING CO. LTD.	**NINE ELMS IRON WKS. Reading, Eng**	**RE67182**
NY	E. F. Gahan, Inc.	500 5th Ave. New York 36	LA4-4857
	PULVERIZING MACHINERY CO. DIV. AMERICAN-MARIETTA CO.	**38 Chatham Rd. Summit, NJ**	**CR3-6360**
Cal	E. M. Underwood & Co.	2901 Rowena Ave. Los Angeles 39	NO5-1247
Ga	Rupulair Co.	2933 Lenox Rd. Atlanta 5	CE3-3052
Ill	G. E. Howkinson	4 N Cicero Ave. Chicago 44	CO1-2365
Mich	A. C. Beckert Co.	21 Berger Rd. Saginaw	PL5-6566
Mo	P. W. Wittke Co.	Box 52, St. Louis 19	WO1-8494
NJ	W. G. Martens & Co.	420 Main St. Chatham	ME5-8048
NY	Dynatrol, Inc.	95 Liberty St. New York 6	WO4-[illegible]
Ohio	R. F. Kleinfeldt Co.	2234 Berrywood Dr. Cincinnati 44	BE1-1200
Pa	A. L. Stern Co.	511 Melrose Pl. South Orange	SO2-7299

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Tex	B. A. Wilson & Co.	1659 Hawthorne St. Houston 6	JA6-2741
Utah	North-Monsen Co.	Box 174, Salt Lake City	DA2-1343
Wash	The Burhans-Sharpe Co.	1731 1st Ave. S, Seattle 4	MA2-9006
	PUROLATOR PRODUCTS, INC.	**970 New Brunswick Ave. Rahway, NJ**	**FU8-4200**
Cal	Purolator Products, Inc.	3723 Wilshire Blvd. Los Angeles	DU2-8213
DC	Purolator Products, Inc.	927 15th St. NW, Washington	ST3-7349
Ill	Purolator Products, Inc.	5955 N Rockwell St. Chicago	UP8-0094
Mich	Purolator Products, Inc.	3927 4th St. Wayne	PA1-5300
	PYE, LTD.	**St. Andrews Rd. Cambridge, Eng**	**CA5[illegible]**
Aus	Tecnico Electronics Pty. Ltd.	13-19 Glebe St. New South Wales	
Belg	Metermaco	Chausse de Louvain 710 Bruxelles 3	
Ital	Jean de Brabant & Co.	Corco Vercelli 30, Milan	
Swed	Elektfofon AB	Box 21038, Stockholm 21	
Indi	Forbes Forbes Campbell	Home St. Fort, Bombay	
	PYE & CO. LTD., W. G.	**York St. Cambridge, Eng**	**CA5-4411**
Mass	Ealing Corp.	33 University Rd. Cambridge 38	
Mass	Jarrell-Ash & Co.	26 Farwell St. Newtonville 60	
	PYRO-ELECTRIC, INC.	**Box 152, 552 Lincoln Ave. Winnetka, Ill**	**HI6-4290**
Cal	Aerol Associates, Inc.	9024 Olympic Blvd. Beverly Hills	BR1-[illegible]
Cal	Aerol Associates, Inc.	1177 University Dr. Menlo Park	DA1-1014
Colo	Aerol Associates, Inc.	Denver Club Bldg. Denver 2	TA5-2046
Conn	Aerol Associates, Inc.	820 Park Ave. Bloomfield	CH2-5586
Kan	Aerol Associates, Inc.	6631 E Kellogg. Wichita 7	MU3-7421
Mass	Aerol Associates, Inc.	850 Lexington St. Waltham	TW4-7850
NY	Aerol Associates, Inc.	170 Great Neck Rd. Great Neck	HU7-9650
NY	Aerol Associates, Inc.	103 Pickwick Rd. Dewitt	GI6-4560
Ohio	Aerol Associates, Inc.	7719 Reading Rd. Cincinnati 37	VA1-4898
Pa	Tri-State Technical Sales Co.	Box 144, Malvern	NI4-6060
Tex	Aerol Associates, Inc.	314 N East St. Arlington	CR5-2400
Wash	Aerol Associates, Inc.	500 Wall St. Seattle 1	MA3-0443
	PYROMETER INSTRUMENT CO., INC.	**92 Portland Ave. Bergenfield, NJ**	**DU4-5140**
Cal	L. H. Freeman Co.	4063 Radford Ave. Studio City	TR7-0256
Cal	C. B. Smith Co.	844 E 12th St. Oakland 6	TE2-0103
Ill	Smith Combustion Eqpt. Co.	2545 W Congress Pkwy. Chicago 12	TA9-8050
La	W. S. Huey Co.	202 Board of Trade Annex, New Orleans 12	TU0409
Md	R. A. Reitz, Jr.	2301 N Charles St. Baltimore 18	BE5-4161
Mass	Industrial & Scien. Instrument Co.	107 Old Sudbury Rd. Wayland	TW3-7453
NJ	L. E. Roher	39 Delaware Ave. Bloomfield	PI3-[illegible]
NY	C. A. Gates Co.	Box 284, New Rochelle	NE2-1465
Ohio	C. H. Joy Co.	27005 Knickerbocker Rd. Bay Village	TR1-[illegible]
Pa	The Aybob Co.	Box 4259, Philadelphia 44	GE8-8736
Pa	Bradshaw & Co.	311 Ross St. Pittsburgh 19	CO1-2627
Tex	Hatfield & Co.	Box 7072, Dallas 9	FL2-8736
	Q. V. S., INC.	**20 N 15th St. East Orange, NJ**	
Del	M. Leff Sales	11 Peppermint Ln. Levittown, NJ	TR7-4040
DC	M. Leff Sales	11 Peppermint Ln. Levittown, NJ	TR7-4040
Md	M. Leff Sales	11 Peppermint Ln. Levittown, NJ	TR7-4040
NY	Rywel Sales Corp.	100 N Village Ave. Rockville Center	RO4-[illegible]
NY	Naylor Electric Co., Inc.	1718 Erie Blvd. E Syracuse	GR2-9183
Va	M. Leff Sales	11 Peppermint Ln. Levittown, NJ	TR7-4040
	QUANTUM, INC.	**Lufbery Ave. Wallingford, Conn**	**CO9-7765**
	QUARTZ & SILICE	**8 rue d'Anjou, Paris, France**	**AM17-36**
NJ	Quartz Products Corp.	688 Somerset St. Plainfield	7.4545
Belg	Jacqmain	4 rue Jenneval, Bruxelles	33.80.31
Ger	Quartz & Silice GmbH.	Am hylligen Born 1, Bad Pyrmont	442
Holl	Quartz & Silice (Holland) N.V.	Passage 61, Den Haag	11.67.17
Ire	Irish Technical & Production Cy Ltd.	11 Hume St. Dublin	62.636
Ital	Quartz & Silice (Italia) Srl	Corso Europa 22, Milano	T96.257
Spn	Carlos Rafael Mares S.L.	Calle de Valencia 333, Barcelona	37.23.00
Swed	Frema	Strandvagen 17, Stockholm O	67.57.28
Swit	Soc. Electrothermique de la Tour de Treme	La Tour de Treme, Canton de Fribourg	(029) 2 82 21
	QUINCY COMPRESSOR CO.	**217 Maine St. Quincy, Ill**	
Cal	Quincy Compressor	1999 Bryant, San Francisco 10	UN1-3030
Ga	C. LeVeck	120 Houston St. NE, Atlanta 3	JA4-0507
Ill	Lambert/Long	1135-40 W Washington Blvd. Chicago 7	TA9-3090
Mich	R. C. Carr	18051 James Couzens Hwy. Detroit 35	DI1-1364
Minn	B. Bartelt	3020 E Franklin Ave. Minneapolis 4	FE9-1594
Mo	J. M. Semke	2647 Washington Blvd. St. Louis 3	JE1-[illegible]
NC	B. Yoe	3100 South Blvd. Charlotte 8	JA3-4124
Ohio	L. Wickliffe	2863 Stanton Ave. Cincinnati 6	WO1-1084
Pa	G. Simons	311 W Baltimore Ave. Media	LO6-5970
NY	D. H. Francis	30 Church St. New York 7	RE9-3558
Tex	H. Stone	9617 Shadydale Ln. Dallas 18	HA8-5505
Tex	R. Nesbitt	9660 Bryant St. Houston 34	HU5-1973
	RBM DIV. ESSEX WIRE CORP.	**Logansport, Ind**	**3121**
Ill	C. A. Bakas	3501 W Addison St. Chicago 18	BR[illegible]-9151
Ill	Del Wellcome	3501 Addison St. Chicago 18	BR[illegible]-9151
Mich	L. Tomala	170 E South St. Hillsdale	HE7-3376
Minn	J. Banke	3230 E Hennepin, Minneapolis 13	FE9-[illegible]
NJ	Hal Jules	457 Frelinghuysen Ave. Newark	ES6-4040
NJ	W. Parkins	457 Frelinghuysen Ave. Newark 5	ES6-4040
NY	B. McClean	15 Warrington Dr. Brighton	BR1-9976
NY	R. Baker	15 Warrington Dr. Brighton 18	BR1-9976
NC	L. O. McCullough	3921 Winfield Dr. Charlotte 5	KE7-1886

Ohio	H. F. Barnes	410 W 1st St. Dayton 2	BA2-6383
Tex	G. T. Cline	2509 W Berry St. Ft. Worth	WA4-5588

RCA SERVICE CO. NUCLEAR & SCIENTIFIC SERVICES
Cherry Hill, Delaware Tp. Camden 8, NJ .. WO3-4000

Cal	RCA Service Co.	20213 Oxnard St. Woodland Hills	DE8-7515
Cal	RCA Service Co.	141 N Livermore Ave. Livermore	HI7-4041
NY	RCA Service Co.	314 Broadway, New York 7	CO7-0686
Ohio	RCA Service Co.	Valleywood Dr. Kettering	BA4-5611
Va	RCA Service Co.	838 N Henry St. Alexandria	OV3-1900

RF PRODUCTS DIV. AMPHENOL-BORG 33 E Franklin, Danbury, Conn PI3-9272

R-P & C VALVE DIV. ACC. .... Reading, Pa. FR6-2881

Cal	R-P & C Valve Division	6800 E Acco St. Los Angeles	RA3-9751
Cal	R-P & C Valve Division	890 Tennessee St. San Francisco 7	MI7-4640
Colo	R-P & C Valve Division	4555 E 46th Ave. Denver 16	FR7-8807
Ga	R-P & C Valve Division	1055 W Marietta St. NW, Atlanta	ST4-8238
Ill	R-P & C Valve Division	2040 N Hawthorne Ave. Melrose Park	ES8-2404
Md	R-P & C Valve Division	Box 5321, Wash. Sta. Baltimore 9	TU9-1500
Mass	R-P & C Valve Division	69 A St. S Boston 27	AN8-4620
Mich	R-P & C Valve Division	2401 E 7-Mile Rd. Detroit 34	TW1-8810
NY	R-P & C Valve Division	230 Park Ave. New York 17	MU6-8800
Pa	R-P & C Valve Division	2nd & Diamond Sts. Philadelphia 25	RE9-7460
Pa	R-P & C Valve Division	2250 Noblestown Rd. Pittsburgh 5	WA2-2100
Tex	R-P & C Valve Division	630 McFarland St. Houston 1	WA3-2661

RS ELECTRONICS CORP. ..... 435 Portage Ave. Palo Alto, Cal DA1-1130

RACAL INSTRUMENTS LTD. .. Western Rd. Bracknell, Berks, Eng BR941

DC	W. J. Zullo	261 Constitutional Ave. NW, Washington	
Mass	W. J. Zullo	104 Highland Ave. Somerville 43	SO6-4236

RACEY MacCALLUM & ASSOC. LTD. 5890 Monkland Ave. Montreal, Can HU9-4941

Can	Racey, MacCallum & Assoc. Ltd.	27 Carlton St. Toronto	EM6-5641

RADIATION APPLICATIONS, INC. 36-40 37th St. Long Island City 1, NY EM1-2170

Ohio	D. W. Martin	5899 Huberville Ave. Dayton 31	CL3-6175

RADIATION COUNTER LABS. INC. 5122 W Grove St. Skokie, Ill OR3-8700

Cal	White & Co.	788 Mayview Ave. Palo Alto	DA1-3550
Cal	Wallace & Wallace	1206 Maple Ave. Los Angeles 15	RI7-0401
Md	S. S. Lee Assoc. Inc.	2521 Ennalls Ave. Wheaton	LO5-3566
Mass	The H. J. Schuft Co.	815 Washington St. Newtonville	LA7-5304
NY	M. J. Scavy & Sons	30 Church St. New York	CO7-8025
NC	S. S. Lee Assoc. Inc.	Box 906, Winston-Salem	ST8-0431
Pa	The Satullo Co.	992 Perry Hwy. Pittsburgh 37	WE1-5200
Tenn	The Ellison Co.	632 Healey Bldg. Atlanta, Ga.	JA5-0238
Tex	R. M Bubel	10131 Goodyear Ave. Dallas	FL2-5826
Wash	AHMCO	110 Adm Bldg. Seattle 8	PA5-9810

RADIATION DETECTION CO. 4047-49 Transport St. Palo Alto, Cal DA3-1279

RADIATION DYNAMICS INC. .. Westbury Industrial Pk. Westbury, NY ED4-3990

Cal	C. W. Reed Co.	5959 S Hoover, Los Angeles	PL3-2221
Mass	Applied Technology	7 Vine St. Manchester	CA7-2700
Mich	B. Z. Rubin Co.	12838 Fenkell Ave. Detroit	UN4-4958
NY	Picker X-Ray Corp.	25 S Broadway, White Plains	WH8-0080
NY	Wilmot Castle Co.	Box 629, Rochester 3	BR1-6060
Tex	Texas Nuclear Corp.	Box 9267, Allendale Sta. Austin	GL3-7268
Can	Industron Corp.	297 Carlton, Toronto, Ont.	
Jap	C. Itoh & Co. (America) Inc.	425 Park Ave. New York	PL1-4330

RADIATION ELECTRONICS DIV.
COMPTOMETER CORP. ..... 5600 Jarvis Ave. Chicago 48, Ill SP5-2400

Cal	M. D. Shriver Co.	3155 N Rosemead Blvd. Rosemead	AT0-8992
Colo	Rowley-Bouvette, Inc.	651 S Jason, Denver 23	SH4-2511
Ind	H. J. Morath	325 Bankers Trust Bldg. Indianapolis 4	ME5-4082
Iowa	J. H. Laas Co.	611 Kahl Bldg. Davenport	DA3-7014
Mass	Industrial & Scientific Instrument Co.	107 Old Sudbury Rd. Wayland	TW3-7453
Mich	Electro-Mation Associates	4012 E 9 Mile Rd. Warren	JE9-1420
Mo	Gordon Fixman Engineering Co.	8160 Stanford Ave. St. Louis	PA5-5219
NY	Infrared Systems, Inc.	470 Franklin St. Buffalo 2	GR3577
NC	E. S. Mack	5 Plymouth Circle, Asheville	AL4-1489
Pa	Voss Machinery Co.	515 S Main St. Pittsburgh 20	WA2-1900
Wash	Western Electro-Dynamics Co.	444 Dexter Horton Bldg. Seattle 4	MA2-4630
For	Controls & Instrument Co.	15 E 40th St. New York 16, NY	MU5-3231

RADIATION ENGINEERING, INC. 4924 Poppleton Ave. Omaha, Neb 556-4300

RADIATION HAZARD CONTROL CO. Fort Atkinson, Wis JO3-5571

RADIATION INSTRUMENT CO. Box 733, Silver Spring, Md

RADIATION INSTRUMENT
DEVELOPMENT LAB. ..... 61 E North Ave. Northlake, Ill

Cal	R. W. Thompson Associates	814 N San Antonio Rd. Palo Alto	DA1-6383
Conn	Applied Technology, Inc.	7 Vine St. Manchester, Mass	MA855W
DC	The Jay Co.	2420 Wilson Blvd. Arlington 1, Va	JA4-6767
Fla	Ridge Instrument Co.	162 Talmeda Rd. Oak Ridge, Tenn	OA5-3333
Ill	Central Engineering Sales Co.	6272 W North Ave. Chicago 39	TU9-7686
Mo	Radiation Engineering, Inc.	4924 Poppleton Ave. Omaha 6, Neb	556-4300
NM	Gene French Co.	7900 Zuni Rd. SE, Albuquerque	AM8-2478
NY	Scientific Systems Sales Corp.	Box 3, Bayside 61	BA5-0929
NY	T. Putnam	243 Westmoreland Dr. Rochester 20	GR3-1267

Pa	R. W. Lichtinger Co.	2472 Edgerton Rd. Cleveland 18, Ohio	EV2-8210
Tex	Ecklund Electronic Sales Co.	Box 12151, Fort Worth	PE8-9773
Wash	R. Johnston Co.	1011 E 69th St. Seattle 15	LA4-5170

RADIATION PRODUCTS, INC. Ft. 40th Rd. Flushing 52, NY FL3-3350

Ariz	C. Herrmann Assoc.	Phoenix	EM9702
Cal	C. Herrmann Assoc.	6275 Henderson Dr. San Diego	ZE0702
Cal	C. Herrmann Assoc.	551 E. Walnut St. Pasadena	MU1-5111
Cal	C. Herrmann Assoc.	291 Lambert St. Palo Alto	DA6-6053
Fla	Ellison Co.	Box 2614, Jacksonville 3	EX8-6751
Ga	Ellison Co.	632 Healey Blvd. Atlanta 3	JA5-0238
NM	C. Herrmann Assoc.	Albuquerque	CH7-2688
NM	C. Herrmann Assoc.	Santa Fe	YU2-2881
Ohio	Engineering Specialties	8115 Camargo Rd. Cincinnati 43	LO1-6803
Tex	Pan Tech Engrg. Co.	3302 Mercer, Houston 27	JA6-4623
Tex	C. Herrmann Assoc.	9562 Ash Creek Dr. Dallas 28	DA7-1973
Wash	C. Herrmann Assoc.	6518 48th Ave. Seattle 15	LA3-5662

RADIATION RECORDING
INSTRUMENTS ..... Box 1056, Sta. B, Montreal 2, Que, Can

RADIATION RESEARCH CORP. 1114 1st Ave. New York, NY TE8-2513

RADIO CITY PRODS. CO. ..... Centre & Glendale Rds. Easton, Pa BL8-9122

DC	J T Fischbach	15th & H, Washington	MA8-1184
NY	M. Reiner	19 E 56th St. New York	

RADIO CORP. OF AMERICA ELECTRON TUBE DIV.
415 S 5th St. Harrison, NJ HU5-3900

Cal	RCA Electron Tube Div.	6355 E Washington Blvd. Los Angeles 22	RA3-8361
Cal	RCA Electron Tube Div.	1838 El Camino Real, Burlingame	OX7-1620
DC	RCA Electron Tube Div.	1725 "K" St. Washington 6	DI7-1260
Ill	RCA Electron Tube Div.	Merchandise Mart Plaza, Chicago 54	WH4-1900
Mich	RCA Electron Tube Div.	714 Center Bldg. Detroit 2	TR5-5600
NJ	RCA Electron Tube Div.	744 Broad St. Newark 2	HU5-3900
Ohio	RCA Electron Tube Div.	224 N Wilkinson Blvd. Dayton 2	BA6-2366

RADIO CORP. of AMERICA, INDUSTRIAL ELECTRONIC PRODUCTS
Front & Cooper Sts, Camden 2, NJ WO3-8000

Cal	Radio Corp. of America	1560 N Vine St. Hollywood 28	HO9-2164
Ga	Radio Corp. of America	134 Peachtree St. Atlanta	JA4-7703
Ill	Radio Corp. of America	1186 Merchandise Mart Plaza, Chicago 54	DE7-0700
NY	Radio Corp. of America	10 E 40th St, New York	JU6-3800
Ohio	Radio Corp. of America	1600 Keith Bldg. Cleveland 15	CH1-3450
Tex	Radio Corp. of America	7901 Empire Freeway, Dallas 35	FL2-3911

RADIO CORP. OF AMERICA SEMICONDUCTOR & MATERIALS DIV.
Box 591, Somerville, NJ RA5-4500

Cal	Radio Corp. of America	6355 E Washington Blvd. Los Angeles 22	RA3-8361
DC	Radio Corp. of America	1725 "K" St. Washington 6	DI7-1260
Ill	Radio Corp. of America	Merchandise Mart Plaza, Chicago 54	WH4-2900
Mass	Radio Corp. of America	64 "A St. Needham Heights 94	HI4-7200
Mich	Radio Corp. of America	714 New Center Bldg. Detroit 2	TR5-5600
NJ	Radio Corp. of America	744 Broad St. Newark	HU5-3900
Ohio	Radio Corp. of America	224 N Wilkinson St. Dayton 2	BA6-2366
Tex	Radio Corp. of America	7905 Empire Freeway, Dallas 7	FL7-8167

RADIOCHEMICAL CENTRE,
THE ..... White Lion Rd. Amersham, Buckinghamshire, Eng

RADIOCHEMISTRY INC. ..... 1111 W St. Catherine St. Louisville 10, Ky .. JU7-8464

RADIOLOGICAL SERVICE CO., INC. 811 W Merrick Rd. Valley Stream, NY CU5-9641

RADIONICS INC. ..... Lafayette & Water Sts. Norristown, Pa BR2-3656

Cal	Branson Instruments, Inc.	12438 Ventura Blvd. Studio City	ST7-9407
Colo	Rowley-Bouvette, Inc.	651 S Jason, Denver 23	WA2-2624
La	Gamma Industries, Inc.	2255 Ted Dunham, Baton Rouge	DI2-3031
Mass	C. T. Morgan Co.	21 Lothrop St. Beverly	WA2-0378
NY	The Bedford Corp.	282 Saratoga Rd. Scotia 2	EX3-3061
Ohio	Dayton X-Ray Co.	1150 W 2nd St. Dayton 7	BA8-4176
Okla	Engineering Test Services, Inc.	910 S Boston Ave. Tulsa	LU2-7005
Pa	R. L. Holliday Co.	Box 10333, Pittsburgh 34	LO1-7620
Utah	Rowley-Bouvette, Inc.	955 Folsom Ave. Salt Lake City 4	DA2-2041
W Va	Baldwin Supply Co.	207 Virginia St. W. Charleston 28	DI5-9661
Can	L. E. Baxter, Ltd.	6077 Upper Lachine Rd. Montreal, P.Q.	HU9-5781
Can	Magnachem Limited	5507 1st St. SE, Calgary, Alberta	RE6-0144

RADIUM CHEMICAL CO., INC .. 161 E 42nd St. New York 17, NY

Cal	C. F. Bergesch Co.	711 S Vermont, Los Angeles	
Ill	Radium Chemical Co, Inc.	444 Green Bay Rd. Kenilworth	

RAMAGE & MILLER, INC. ..... 3221 Florida Ave. Richmond, Cal BE4-7061

Conn	M. S. Coldwell, Inc.	280 Fairfield Ave. Hartford 6	JA2-5832
NY	Land-C-Air Sales Co.	76 Main St. Tuckahoe	WO1-4700

RANDOLPH CO. ..... 1018 Rosine St. Houston 19, Tex JA6-2091

RANK CINTEL LTD. ..... Worsley Bridge Rd. London, S E 26, Eng

Md	Instrument Corp. of America	1545 Kennewick Rd. Baltimore 18	CH3-8294
Mass	General Measurements Co., Inc.	1106 Beacon St. Newton Highlands, 61	WO9-9150
NJ	Marconi Instruments	111 Cedar Ln. Englewood	LO7-0607

RANSOM RESEARCH ..... Box 269, San Pedro, Cal TE2-1128

Cal	West Eleven, Inc.	8061 Sunset Blvd. LA	

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO
NY	Bradley Associates	9 Dash Pl. New York 36	
Wash	M. R. Smith	Box 246, Kirkland	
	RAPID ELECTRIC CO.	**2881 Middletown Rd. New York, NY**	
Conn	Foy Electro Chemical	Box 164, Ansonia	
Ill	Jacor HAY Co.	4014 W Parker Ave. Chicago	
Mich	G. L. Narkenis Co.	15300 Fullerton Ave, Detroit	
Mo	Sommers Bros.	3439 N Broadway, St. Louis	
Pa	Shop Materials Co.	730 Washington Ave. Pittsburgh	
	RASCHER & BETZOLD, INC.	**730 N. Franklin St. Chicago 10, Ill**	**SU7-5169**
	RAWSON ELECTRICAL INSTRUMENT CO.	**114 Potter St. Cambridge 42, Mass**	**KI7-4041**
Mass	W. M. Hague	Box 89, Carlisle	VO2-8717
	RAY-O-VAC CO DIV ELEC STORAGE BATTERY CO.	**Madison, Wis**	**ALS-7201**
Cal	Ray-O-Vac Co.	111 Sutter St. San Francisco 4	YU9-9961
NY	Ray-O-Vac Co.	1775 Broadway, New York 19	JU2-5455
Tenn	Ray-O-Vac Co.	1388 Madison Ave. Memphis 4	BR5-3167
	RAYBESTOS-MANHATTAN, INC.	**Arnold & Stiegel Sts. Manheim, Pa**	**MO5-2211**
Ala	Raybestos-Manhattan, Inc.	1106 N 5th Ave. Birmingham 1	
Cal	Raybestos-Manhattan, Inc.	4651 Pacific Blvd. Los Angeles 58	
Colo	Raybestos-Manhattan, Inc.	4500 York St. Denver 16	
Ill	Raybestos-Manhattan, Inc.	6010 Northwest Hwy. Chicago 31	
La	Raybestos-Manhattan, Inc.	1523 St. Ferdinand St. New Orleans 17	
Mich	Raybestos-Manhattan, Inc.	620 Fisher Bldg. Detroit 2	
NJ	Raybestos-Manhattan, Inc.	61 Willett St. Passaic	
Ohio	Raybestos-Manhattan, Inc.	20950 Center Ridge Rd. Cleveland 16	
Pa	Raybestos-Manhattan, Inc.	1138 Suburban Sta. Bldg. Philadelphia 3	
Pa	Raybestos-Manhattan, Inc.	810 Empire Bldg. Pittsburgh 22	
Tex	Raybestos-Manhattan, Inc.	2809 Taylor St. Dallas 26	
Tex	Raybestos-Manhattan, Inc.	3012 Canal St. Houston 1	
	RAYCHEM CORP.	**Oakside at Northside, Redwood City, Cal**	**EM9-1376**
Colo	A. I. Williams Co.	2263 S Albion St. Denver 22	SE5-9403
Ill	Russ Diethert Co., Inc.	2030 W Montrose Ave. Chicago 18	LO1-7627
Mass	Schaal Associates, Inc.	11 Muzzey St. Lexington	
Mich	Henschen, Jensen & Co.	2842 W Grand Blvd. Detroit 2	TR1-3308
Minn	L. F. Murphy & Associates, Inc.	1940 Hennepin Ave. Minneapolis 5	FR4-2350
Mo	R. W. Farris Co., Inc.	406 W 34th St. Kansas City 11	PL3-5330
NY	O. F. Masin Co.	1 Wolf's Ln. Pelham	PE8-4510
NY	F. W. Taylor Co., Inc.	Box 222, DeWitt 14	GI6-0422
Ohio	Baehr, Greenleaf & Associates, Inc.	14700 Detroit Ave. Cleveland 7	AC1-9030
Pa	S. K. Macdonald, Inc.	1531 Spruce St. Philadelphia 2	KI5-1205
Tex	J. S. Neely	Box 9494, Fort Worth	MA6-5371
Wash	B. Porter Co.	1209 Poplar Pl. Seattle 44	EA3-8330
	RAYPAR, INC.	**7800 W Addison St. Chicago 34, Ill**	**TU9-3700**
Cal	Ungar Sales Associates	9925 Venice Blvd. Los Angeles	UP0-6116
Del	F. S. Carmine Co.	14 Knickerbocker Dr. Newark	NE8-7603
Ga	P. Hayden Associates	Box 331, East Point	PO7-9646
Ill	Gianaras Sales Co.	5435 Northwest Hwy. Chicago	SP4-4600
Ind	D. Cook & Associates	3055 N Meridian St. Indianapolis	WA6-6611
Minn	P. Aylward & Co.	3807 Grand Ave. Minneapolis 9	TA4-6266
NY	W. Lichter Co.	26 Teakwood Ln. Roslyn	MA1-2636
Ohio	Ohio Associates	Box 728, Lima	
Tex	L. C. Cole	Box 504, Denton	DU2-6017
	RAY-PROOF CORP.	**843 Canal St. Stamford, Conn**	
	RAYTHEON CO.		
	COMMERCIAL APPAR. & SYSTEMS DIV.	**1415 Boston-Prov. Tnpk. Norwood, Mass**	**NO7-6700**
	EQUIPMENT DIV.	**1089 Washington St. W Newton, Mass**	**DE2-7700**
	INDUSTRIAL COMPONENTS DIV.	**55 Chapel St. Newton, Mass**	**BI4-7500**
	MICROWAVE & POWER TUBE DIV.	**Foundry Ave. Waltham, Mass**	**TW9-8400**
	MISSILE SYSTEMS DIV.	**520 Winter St. Waltham 54, Mass**	**TW9-8200**
	RESEARCH DIV. HIGH TEMP. MATERIALS DEPT.	**Waltham 54, Mass**	**TW9-8400**
	SEMICONDUCTOR DIV.	**215 First Ave. Needham Hgts. Mass**	**HI4-5700**
Cal	Raytheon Co.	225 N Van Ness Ave. Hawthorne	PL7-3151
Cal	Raytheon Co.	486 El Camino Real, Redwood City	EM5-5555
Cal	Raytheon Co.	647 7th St. San Francisco	MA1-1488
Colo	Raytheon Co.	1422 N Hancock St. Colorado Springs	ME3-3846
DC	Raytheon Co.	1000 16th St. NW, Washington	ME5-8205
Fla	Raytheon Co.	1612 E Colonial Dr. Orlando	GA3-0518
Ill	Raytheon Co.	9501 Grand Ave. Franklin Park	NA5-4000
Md	Raytheon Co.	100 Roesler Rd. Glen Burnie	SO1-0450
Mass	Raytheon Co.	225 Crescent St. Waltham	TW9-8040
NJ	Raytheon Co.	210 Sylvan Ave. Englewood Cliffs	LO7-4911
NJ	Raytheon Co.	601 Bangs Ave. Asbury Park	KE1-2811
NY	Raytheon Co.	2360 James St. Syracuse	HO3-9141
NY	Raytheon Co.	589 5th Ave. New York	PL5-3900
NY	Raytheon Co.	225 N Washington St. Rome	
Ohio	Raytheon Co.	333 W 1st St. Dayton	BA3-8128
Ohio	Raytheon Co.	3076 W 117 St. Cleveland	WI1-7716
Tex	Raytheon Co.	2720 Mocking Bird Ln. Dallas	FL1-6401
Wash	Raytheon Co.	1920 154 Ave. SE, Bellevue	EA3-2000

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	REACTIVE METALS INC. SUB NATL DISTILLERS & CHEM. CORP.	**Niles, Ohio**	**OL2-9951**
	REACTOR EXPERIMENTS, INC.	**1485 Bayshore Blvd. SF 24, Cal**	**JU7-0486**
	READY MADE SIGN CO. INC	**115 Worth St. New York 13, NY**	
	REDMOND CO., INC.	**201 Monroe St. Owosso, Mich**	**SA5-5151**
Cal	Redmond Co., Inc.	139 Illinois St. El Segundo	OR8-3241
Ill	Redmond Co., Inc.	6525 W North Ave. Oak Park	VI8-5721
NJ	Redmond Co., Inc.	850 Broad St. Newark 5	MI2-3980
Ohio	Redmond Co., Inc.	1720 Section Rd. Cleveland 37	ME1-3153
Tex	Redmond Co., Inc.	5531 Dyer St. Dallas 6	EM8-4461
	REETZ CO., ROBERT C.	**81 Montgomery St. Pawtucket, RI**	**PA2-9025**
	REEVES INSTRUMENT CORP.	**E Gate Blvd. Garden City, NY**	**PI6-8100**
Cal	Reeves Instrument Corp.	1216 5th St. Santa Monica	EX5-3289
Colo	Barnhill Associates	1170 S Sheridan Blvd. Denver 26	WE5-4645
Ill	E. Magnuson Co.	3349 W Irving Park Rd. Chicago 18	JU8-2613
Ky	R. O. Whitesell & Associates	400 N 38th St. Louisville	SP6-2024
Mich	J. L. Peirce Co.	16666 James Couzens Hwy. Detroit 21	UN2-2571
NM	Barnhill Associates	8310 Cutler St. NE, Albuquerque	AX9-7997
NY	A. E. DeCew Agency	Box 73, Sodus	HT3-3261
Ohio	R. O. Whitesell & Associates	2209 Losantiville Ave. Cincinnati	ME1-9210
Ohio	R. O. Whitesell & Associates	Box 5, Westlake	SU1-1855
Ohio	R. O. Whitesell & Associates	2600 Far Hills Bldg. Dayton	AX8-4261
Tex	Servo/Electronics Prods. Co.	Box 13371, Dallas 20	FL1-4653
Utah	Barnhill Associates	207 N 4th East, Centerville	EL5-5101
	REICHERT OPTISCHE WERKE AG, C. Hernalser Hauptstr. 219, Vienna 18 Aust		**66 16 41**
NJ	W. J. Hacker & Co., Inc.	Sherwood Ln. & Passaic, West Caldwell	CA6-8450
	REICHHOLD CHEMICALS, INC.	**525 N Broadway, White Plains, NY**	**WH8-6200**
Ala	Reichhold Chemicals, Inc.	Tuscaloosa	PL2-2551
Cal	Reichhold Chemicals, Inc.	237 Motor Ave. Azusa	CU3-4123
Cal	Reichhold Chemicals, Inc.	Linden Ave. S San Francisco	PL5-9392
Colo	G. C. Brandt, Inc.	1940 Blake St. Denver 2	TA5-5871
Ill	Reichhold Chemicals, Inc.	7738 W 61st Pl. Argo	GL8-2400
Mass	Reichhold Chemicals, Inc.	Box 158, Ballardvale	GR5-6600
Mich	Reichhold Chemicals, Inc.	601-707 Woodward Hghts. Blvd. Detroit 20	JO4-6500
Mo	Reichhold Chemicals, Inc.	7730 Carondelet Ave. St. Louis 5	PA6-2929
NJ	Reichhold Chemicals, Inc.	726 Rockefeller St. Elizabeth 2	EL3-8600
NY	Reichhold Chemicals, Inc.	224 Harrison St. Syracuse	GR1-4149
Tex	Reichhold Chemicals, Inc.	Box 9608, Houston 15	GL3-8431
	REILLY TAR & CHEMICAL CORP.	**1615 Merchants Bank Bldg. Indapls 4, Ind**	**MEB-7531**
	RELIANCE ELECTRIC & ENGINEERING CO.	**24701 Euclid Ave. Cleveland 17, Ohio**	
Cal	Reliance Electric & Eng. Co.	2557 Yates Ave. Los Angeles	RA3-5454
Cal	Reliance Electric & Eng. Co.	1525 Adrian Rd. Burlingame	OX7-5341
Ga	Reliance Electric & Eng. Co.	544 Plaster Ave. NE, Atlanta	TR5-0087
Ill	Reliance Electric & Eng. Co.	3300 N Knox Ave. Chicago	AV2-0400
La	Reliance Electric & Eng. Co.	831 Howard Ave. New Orleans	TU1792
Mass	Reliance Electric & Eng. Co.	70 Highland Ave. Needham Hghts.	HI4-4280
Mich	Reliance Electric & Eng. Co.	2734 W 11 Mile Rd. Berkley	LI8-3000
NY	Reliance Electric & Eng. Co.	155 E 44th St. New York	OX7-7373
Ohio	Reliance Electric & Eng. Co.	13967 Cedar Rd. Cleveland	FA1-7880
Pa	Reliance Electric & Eng. Co.	225 Bala Ave. Bala-Cynwyd	TR8-5020
Tenn	Reliance Electric & Eng. Co.	3373 Poplar Ave. Memphis	FA7-6062
Tex	Reliance Electric & Eng. Co.	5622 Dyer St. Dallas	EM8-3928
	RELIANCE INCORPORATED	**1210-1212 Adams Ave. Phil 24, Pa**	**JE3-3275**
	REMPE CO.	**334 N Sacramento Blvd. Chicago 12, Ill**	
	REON RESISTOR CORP.	**155 Saw Mill River Rd. Yonkers, NY**	**YO5-9850**
Cal	F. A. Emmet Co.	1810 Fairoaks Ave. S Pasadena	MU2-3721
Cal	J. E. Striker Co.	Box 548, San Carlos	LY1-0736
Fla	Winfield Electronic Sales	666 NE 125th St. N Miami	PL1-5568
Ill	Midwest Electronic Sales	3800 W North Ave. Chicago 47	CA7-3222
Ind	F. E. Menze	729 W Parkard Ave. Ft. Wayne	KE3171
Mass	Reon Resistor Corp.	680 Main St. Waltham 54	TW4-3505
Mich	R. E. Jackson Co.	10534 Ludlow Ave. Huntington Woods	LI2-5059
Mo	Thunderbird Eng. Sales & Serv.	2826 Main St. Kansas City	WE1-8779
NY	S. J. Sales Engineering Co.	130 Lafayette St. New York 13	WO2-7768
Pa	Reon Resistor Corp.	1123 Western Saving Fund Bldg. Phila 7	PE5-4950
Utah	Applied Engineering Products Co.	406 Felt Bldg. Salt Lake City	EM4-4942
	REPUBLIC FLOW METER CO.	**2260 Diversey Pkwy. Chicago 47, Ill**	**BR8-6000**
Ga	Republic Flow Meter Co.	1495 Northside Dr. NW, Atlanta 1	TR6-2691
La	Republic Flow Meter Co.	5534 Canal Blvd. New Orleans 25	HU8-6361
Mass	Republic Flow Meter Co.	201 Devonshire St. Boston 10	HA6-4728
Mich	Republic Flow Meter Co.	18230 Grand River Ave. Detroit 23	BR3-6440
Mo	Republic Flow Meter Co.	4550 Main St. Kansas City 11	JE1-4343
NY	Republic Flow Meter Co.	26-09 Jackson Ave. Long Island City 1	ST6-6119
Ohio	Republic Flow Meter Co.	3197 Linwood Ave. Cincinnati 8	EA1-6817
Ohio	Republic Flow Meter Co.	1900 Euclid Ave. Cleveland 15	MA1-1757
Pa	Republic Flow Meter Co.	308 Suburban Sq Bldg. Ardmore	MI2-8630
Pa	Republic Flow Meter Co.	400 N Lexington, Pittsburgh 8	CH1-8400
Tex	Republic Flow Meter Co.	1102 Delano St. Houston 25	CA8-9641

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	REPUBLIC RUBBER DIV. LEE RUBBER & TIRE CORP.	**Youngstown, Ohio**	**RI3-2131**
Ill	Republic Rubber Division	540 W Washington Blvd. Chicago 6	ST2-8550
Mich	Republic Rubber Division	807 New Center Bldg. Detroit	TR5-2068
NJ	Eastern Distributing Center	Box 566, Passaic	
NY	Republic Rubber Division	141 Broadway, New York 6	WO4-0618
Pa	Republic Rubber Division	22nd & Race Sts. Philadelphia	LO3-6053
	REPUBLIC STEEL CORP	**Republic Bldg. Cleveland 1, Ohio**	**PR1-1400**
Ala	Republic Steel Corp.	88 Office Park, Birmingham 13	TR9-0471
Cal	Republic Steel Corp.	823 Mobil Bldg. Los Angeles 17	MA4-5144
Colo	Republic Steel Corp.	230 The Denver Club Bldg. Denver 2	MA3-5289
Ill	Republic Steel Corp.	1200 McCormick Bldg. Chicago 4	WA2-3279
Mo	Republic Steel Corp.	811 Shell Bldg. St. Louis 3	CH1-8165
NY	Republic Steel Corp.	Chrysler Bldg. New York 17	OX7-9500
NY	Republic Steel Corp.	1400 Rand Bldg. Buffalo 3	MA8760
Ohio	Republic Steel Corp.	2701 Carew Tower Bldg. Cincinnati 2	PA1-3801
Pa	Republic Steel Corp.	920 Suburban Sta. Bldg. Philadelphia 3	LO3-8900
Pa	Republic Steel Corp.	1332 H. W. Oliver Bldg. Pittsburgh 22	GR1-2425
Tex	Republic Steel Corp.	Houston Club Bldg. Houston 2	CA2-9151
	RESDEL CORP	**Box 217, Rio Grande, NJ.**	**WI2-5643**
	RESE ENGINEERING, INC.	**731 Arch St. Philadelphia 6, Pa**	**GL5-9001**
Cal	King Engineering Co.	532-1/2 Hollywood Blvd. Los Angeles 27	HO4-7166
Mass	Brogan Associates	200 Boylston St. Chestnut Hill 67	WO9-9580
NY	Brogan Associates	220 Jericho Tnpk. Mineola	TI7-3230
	RESEARCH CHEMICALS DIV. NUCLEAR CORP. OF AMERICA	**Box 431, Burbank, Cal**	**VI9-6276**
Ill	R. Steiner	6416 N Hamilton, Chicago 45	BR4-5406
NJ	Nuclear Corp. of America	2 Richwood Pl. Denville	OA7-4200
	RESEARCH DEVELOPMENT MANUFACTURE, INC.	**429 E Cullom St. Philadelphia 44, Pa**	**GL5-9700**
	RESEARCH EQUIPMENT CO.	**502 Sunnyside, Wheaton, Ill**	**MO5-2731**
	RESEARCH SPECIALTIES CO.	**200 S Garrard Blvd. Richmond, Cal**	**BE5-9110**
Ill	Research Specialties Co.	7101 Stony Island Ave. Chicago 49	PL2-2300
Md	Research Specialties Co.	Snow Hill Farm, Mechanicsville	GR5-6701
Mass	Research Specialties Co.	45 Greenwood Ave. Wakefield	CR6-5528
	RESEARCH VACUUM SUPPLY CO.	**6712 N Clark St. Chicago, Ill**	**HO5-7490**
	RESISTOFLEX CORP	**Woodland Rd. Roseland, NJ**	**CA6-7700**
Cal	Resistoflex Corp.	301 N Crescent Way, Anaheim	PR2-4700
Fla	Resistoflex Corp.	5385 NW 36th St. Miami Springs	TU5-3722
Ga	Resistoflex Corp.	3230 Peachtree Rd. NE, Atlanta	CE7-0658
Ill	Resistoflex Corp.	80 E Jackson Blvd. Chicago	HA7-8243
La	Resistoflex Corp.	Box 3321, Baton Rouge 5	DI4-8551
Mo	Resistoflex Corp.	9729 Manor Rd. Kansas City	NI2-6843
Ohio	Resistoflex Corp.	19615 W Lake Rd. Cleveland	ED1-1170
Ohio	Resistoflex Corp.	53 Park Ave. Dayton	AX3-1796
Pa	Resistoflex Corp.	830 Lancaster Ave. Bryn Mawr	LA5-6159
Tex	Resistoflex Corp.	135 Glass St. Dallas	RI2-2396
Tex	Resistoflex Corp.	724 Friar Tuck, Houston	JA2-1246
Wash	Resistoflex Corp.	105 Orcas St. Seattle	PA5-2030
	RESITRON LABORATORIES, INC.	**2908 Nebraska Ave. Santa Monica, Cal**	**EX3-5217**
Pa	M & S Electronics	1328-34 N 4th St. Philadelphia 22	PO5-0460
	REUTER-STOKES ELECTRONIC COMPONENTS, INC.	**2149 Hamilton Ave. Cleveland 14, Ohio**	**TO1-7620**
Ariz	C. W. Fowler Co.	429 S Western Ave. Los Angeles 5, Cal.	DU4-7203
Cal	C. W. Fowler Co.	429 S Western Ave. Los Angeles 5	DU4-7203
Ill	Central Engrg. Sales Co.	6272 W North Ave. Chicago 39	TU9-7686
Ind	Central Engrg. Sales Co.	6272 W North Ave. Chicago 39, Ill.	TU9-7686
Iowa	Central Engineering Sales Co.	6272 W North Ave. Chicago 39, Ill	TU9-7686
Mich	Central Engrg. Sales Co.	6272 W North Ave. Chicago 39, Ill.	TU9-7686
Minn	Central Engrg. Sales Co.	6272 W North Ave. Chicago 39, Ill.	TU9-7686
Mo	Central Engrg. Sales Co.	6272 W North Ave. Chicago 39, Ill.	TU9-7686
Nev	C. W. Fowler Co.	429 S Western Ave. Los Angeles 5, Cal.	DU4-7203
NM	C. W. Fowler Co.	429 S Western Ave. Los Angeles 5, Cal.	DU4-7203
Wis	Central Engrg. Sales Co.	6272 W North Ave. Chicago 39, Ill.	TU9-7686
For	Terminal Radio Intl. Ltd.	240 W 17th St. New York 11, NY	CH3-5200
	REVERE COPPER & BRASS, INC.	**230 Park Ave. New York 17, NY**	**YU6-3100**
Cal	Revere Copper & Brass, Inc.	Box 3246, Terminal Annex, Los Angeles 54	
Fla	Revere Copper & Brass, Inc.	5750 NW 32nd Ct. Miami 42	
Ill	Revere Copper & Brass, Inc.	2200 N Natchez Ave. Chicago 35	
Md	Revere Copper & Brass, Inc.	1301 Wicomico St. Baltimore 3	
Mass	Revere Copper & Brass, Inc.	24 N Front St. New Bedford	
Mich	Revere Copper & Brass, Inc.	5851 W Jefferson Ave. Detroit 9	
Mo	Revere Copper & Brass, Inc.	3615 Olive St. St. Louis 8	
NY	Revere Copper & Brass, Inc.	Box 151, Rome	
NY	Revere Copper & Brass, Inc.	360 Lexington Ave. New York 17	
Pa	Revere Copper & Brass, Inc.	666 Washington Rd. Pittsburgh 28	
Tex	Revere Copper & Brass, Inc.	8320 Chancellor Row, Dallas 35	
Wash	Revere Copper & Brass, Inc.	314 Fairview Ave. N, Seattle 9	
	REVERE CORP. OF AMERICA	**Wallingford, Conn**	**CO9-7701**
Cal	Revere Corp. of America	5540 E Harbor St. Los Angeles 22	RA3-8751
Fla	A. K. Baxter	Box 28, Altamonte Springs	VA8-5271
Ga	L. E. Wright	2869 Ridgemore Rd. NW, Atlanta 18	SY4-6393

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL NO.
Mass	G. F. Slowe	4 Elmont St. Dorchester	AVE-9240
Mich	G. J. Laile	8521 Cooley Beach Dr. Pontiac	EM3-3991
Mo	A. O. Sporleder	9304 Laverne Pl. Affton 23	PL2-2454
NJ	A. C. Hills	52 Park Ave. Caldwell	CA6-1174
NY	L. Paine Jr.	130 E 24th St. New York	AP7-7747
Ohio	H. L. Zupp	3525 Guilford Ave. NW, Canton	GL5-0594
Tex	D. H. Oldham	405 Philips Ct. Arlington	CE4-7501
Wash	C. K. Hughes	836 E 151st St. Seattle 55	MU2-4506
Can	Delta Aircraft Equipment Co.	1798A Avenue Rd. Toronto 12, Ont.	RU3-7272
	REYNOLDS METALS CO.	**Box 2346, Richmond 18, Va**	**AT2-2311**
	RHEEM SEMICONDUCTOR CORP.	**350 Ellis St. Mountain View, Cal**	**YO8-9211**
Cal	Rheem Semiconductor Corp.	5150 Wilshire Blvd. Los Angeles 36	WE7-1844
Cal	Rheem Semiconductor Corp.	1943 Madera, Lemon Grove	HO3-9123
Ill	Rheem Semiconductor Corp	1919 N Harlem Ave. Chicago 35	BE7-4230
Md	Rheem Semiconductor Corp.	6132 Baltimore Blvd. Riverdale	UN4-4042
Mass	Rheem Semiconductor Corp.	401 Lowell St. Lexington	VO2-8850
Mich	Rheem Semiconductor Corp.	18450 Livernois Ave. Detroit 21	UN3-2870
Minn	Rheem Semiconductor Corp.	6519 Nicollet Ave. Minneapolis 23	UN6-8751
NJ	Rheem Semiconductor Corp.	610 E Palisade Ave. Englewood	LO7-4326
NY	Rheem Semiconductor Corp.	320 Northern Blvd. Great Neck	HU2-7100
	RIDGEFIELD INSTRUMENT GROUP SCHLUMBERGER CORP.	**Ridgefield, Conn**	**ID6-2631**
	RIGGS NUCLEONICS CORP.	**135 W. Magnolia Blvd. Burbank, Cal**	**VI9-2481**
Cal	Long & Associates, Inc.	506 Middlefield Rd. Redwood City	EM9-3324
Ill	Electronic Aides	1105 W Lawrence, Chicago	LO1-1042
Md	W. M. Jones Co., Inc.	1107 Echo Ct. N, Hampton Village, Towson	VA3-2434
Mich	B. Z. Rubin Co.	12838 Fenkell Ave. Detroit	UN4-4918
NY	J. B. Lightstone	515 Comstock Ave. Syracuse	GR5-6704
NY	Tower Sales Engineering Co.	3146 Grand Central Sta. New York	ST8-4883
Pa	S & S Associates	780 W DeKalb Pike, King of Prussia	BR9-7192
Tex	T. W. Ecklund Co.	Box 12151, Fort Worth	PE5-9773
Wash	N. R. Schultz Co.	4227 Airport Way, Seattle 8	MA4-8850
	RILEY STOKER CORP.	**9 Hopewell St. Worcester 6, Mass**	**PL6-7111**
Cal	R. G. Meyler Corp.	510 W 6th St. Los Angeles	MA7-1831
Fla	Riley Stoker Corp.	1723 Prudential Bldg. Jacksonville	EX8-5251
Ill	Riley Stoker Corp.	Prudential Plaza, Chicago	MO4-0636
La	Riley Stoker Corp.	5534 Canal Blvd. New Orleans	HU2-6962
Mass	Riley Stoker Corp.	80 Federal St. Boston	LI2-1988
Mich	Riley Stoker Corp.	101 Walker St. Detroit	LO7-1114
NY	Riley Stoker Corp.	30 E 40th St. New York 16	MU3-8623
NY	Riley Stoker Corp.	472 S Salina St. Syracuse	HA2-1702
NC	Riley Stoker Corp.	309 Cole Bldg. Charlotte	ED3-8549
Ohio	Riley Stoker Corp.	857 Leader Bldg. Cleveland	MA1-2051
Pa	Riley Stoker Corp.	12 S 12th St. Phila	MA7-3000
Pa	Riley Stoker Corp.	2511 Grant Bldg. Pittsburgh	EX1-1626
	RIMAK ELECTRONICS, INC.	**10929 Vanowen St. N Hollywood, Cal**	**TR7-5526**
Cal	Pacific Electro Sales Inc.	6063-1/2 Whittier Blvd. Los Angeles 22	
Cal	Ungar Sales Assoc.	9925 Venice Blvd. Los Angeles 34	UP0-6116
Cal	B. Kolans & Co.	219 Calif. Dr. Burlingame	DI4-7111
Colo	McLoud & Raymond Co.	5403 E Evans Ave. Denver 22	SK6-1589
Mass	D. Greene Organization	Box 124, Cambridge 38	UN4-2220
NJ	R. Finlay	45 Broad St. Ridgewood	OL2-0088
NJ	M. W. Stollmack	67 Dorchester Rd. Emerson	CO1-2313
NY	O.E.M. Specialties	Box 126, Onondega Sta. Syracuse 16	HY2-2148
Tex	W. R. Retzloff Co.	Box 1786, San Antonio 6	LE3-7839
	RIO TINTO MINING CO. of CANADA LTD.	**335 Bay St. Toronto, Ont, Can**	
Aus	Rio Tinto Mgmt. Serv. (Aus) Pty. Ltd.	408 Collins St. Melbourne, C. 1	MY1961
Eng	Rio Tinto Mgmt. Serv. (UK), Ltd.	59 Gresham St. London EC2	MEN101
Ger	Nukem, GmbH	Wolfgang bei Hanau, Frankfurt-Main	
	RISDON MFG. CO.	**Hoagetuck, Conn**	**PA9-8231**
Cal	Smith Sales Co.	972 S Goodrich Blvd. Los Angeles 22	RA3-0028
Ga	Ardco Distributors	Box 11555, Atlanta 5	CE3-7832
Ill	Risdon Mfg. Co.	5875 N Lincoln Ave. Chicago 45	LO1-9816
Mich	J. H. Smith	Box 5192, Grosse Pointe 36	TU5-5220
Mo	W. S. Richards Co.	2108 Gravois Ave. St. Louis 4	FR6-1704
Pa	Reece Geissinger Associates	1750 N Highland Rd. Pittsburgh 28	LO8-2260
	ROBATEL & MULATIER	**59 A 69 Rue Barabon, Lyon, France**	
	ROBBINS AVIATION, INC.	**2250 E 38th St. Vernon 58, Cal**	**LU9-5221**
	ROBBINS & MYERS, INC.	**1345 Legondo Ave. Springfield, Ohio**	**FA3-6461**
Cal	C. W. Boswell	531 Jessie St. San Francisco	HE1-3436
Ill	Robbins & Myers, Inc.	5517 W Montrose, Chicago 41	SP7-8270
La	O. E. Barron	621 Commercial Pl. New Orleans 12	JA2-3101
Mich	C. A. Lofgren	1840 Hilton Rd. Ferndale 20	JO6-2587
Minn	E. E. Rempfer & Assoc.	215 6th St. SE, Minneapolis 14	FE6-1021
NY	Robbins & Myers, Inc.	57 Murray St. New York 7	BE3-0381
Ohio	Robbins & Myers, Inc.	3030 Euclid Ave. Cleveland 15	EN1-5510
Okla	M. B. Sherman	5138 S Peoria, Tulsa 9	RI3-2525
Pa	Robbins & Myers, Inc.	8418 W Chester Pike, Upper Darby	SU9-2525
Tenn	T. B. Jones	651 S Cooper St. Memphis 4	BR6-4459
Tex	R. E. Boswell	Box 13095, Houston 19	OV6-6142
Tex	G. R. Haley	2514 Irving Blvd. Dallas 7	RI1-8423
	ROBERT & CO. ASSOCIATES	**96 Poplar St. NW, Atlanta 3, Ga.**	**JA5-8411**
	ROBERTS TOLEDO RUBBER CO.	**4143 Monroe St. Toledo 13, Ohio**	

ROBERTSHAW-FULTON CONTROLS CO. AERO & INST DIV.
Santa Ana Fwy at Euclid, Anaheim, Cal KE5-8151

Ariz	G. S. Thomson Co. Inc.	611 N Campbell St. El Paso	KE2-9503
Cal	Carkeek Engineering Co.	285 S Euclid Ave. Pasadena	MU1-0489
Cal	Stillson Associates	33 Meadowpark Ct. Orinda	CL4-3751
Colo	Automatic Control & Equip Co.	5750 Pecos St. Denver	GE3-6436
Minn	Smico Sales Co.	4501 Brownsdale Ave. Minneapolis	WA6-9975
Mo	Kirk Campbell Co.	1736 Locust St. Kansas City 8	
Mont	Continental Labs. Inc.	517-4th St. W. Billings	9-1394
Neb	H. G. Klug Co.	2029 N 67th Ave. Omaha	GL1377
Okla	Myers-Aubrey Co.	Box 5496, Tulsa	WE2-3234
Ore	R. E. Donelson Co.	Box 5785, Portland	OL4-0152
Tex	Wright Industrial Prods. Co.	5738 N Central Expwy. Dallas	TA4-2571
Utah	Control Systems, Inc.	Box 2204, Salt Lake City 11	EM4-6425

ROBERTSHAW-FULTON CONTROLS CO. BRIDGEPORT THERMOSTAT DIV.
155 Hill St. Milford, Conn

ROBERTSHAW-FULTON CONTROLS CO.
FULTON SYLPHON DIV. .... Box 400, Knoxville 1, Tenn 4-1641

Cal	Robertshaw-Fulton Controls Co.	3101 E Imperial Hwy. Lynwood	NE6-9791
DC	Robertshaw-Fulton Controls Co.	8616 Georgia Ave. Silver Spring, Md	JU8-3422
Ill	N. W. Barnes & Co.	568 Wrigley Bldg. Chicago 11	WH4-6552
Md	Robertshaw-Fulton Controls Co.	3411 Old York Rd. Baltimore 18	BE5-9306
Mass	Robertshaw-Fulton Controls Co.	238 Main St. Cambridge 42	TR6-5577
Mich	Robertshaw-Fulton Controls Co.	8406 W McNichols Rd. Detroit 21	ME6-4271
NJ	Robertshaw-Fulton Controls Co.	21 Euclid Ave. Haddonfield	HA8-3334
NY	Robertshaw-Fulton Controls Co.	797 Military Rd. Buffalo 17	DE1515
NY	King & Shepherd, Inc.	50 Church St. New York 7	CO7-1456
Ohio	Robertshaw-Fulton Controls Co.	4866 Cooper Rd. Cincinnati 42	TW1-16072
Ohio	Robertshaw-Fulton Controls Co.	1991 Lee Rd. Cleveland 18	YE2-6242
Tex	Robertshaw-Fulton Controls Co.	5635 Yale Blvd. Dallas 6	EM3-5553

ROBERTSON & CO. LTD., W. H. A. LYNTON WKS. Bedford, Eng

Can	W. E. Micklethwaite	12 Kings Lynn Rd. Toronto 18	

ROBINSON & CO. LTD. D. .... 717 London Rd. Hounslow, Middlex. Eng. .. HO6266

Eng	P. H. Jackson & Co. Ltd.	Corporation St. Burmingham 4	CE6720
Eng.	Murray-Swanson & Co. Ltd.	Summerhill Terr. Newcastle-on-Tyne	26351
Eng	M. Johnson	43 Clifford Rd. Stockport, Cheshire	PO3088
Scot	Murray-Swanson & Co. Ltd.	779 Argyle St. Glasgow, C3	CI4754

ROCKWELL CO., W. S. ..... 200 Eliot St. Fairfield, Conn CL9-1621

ROCKWELL MFG. CO. ..... 400 N Lexington Ave. Pittsburgh 8, Pa. .. CH1-3400

Cal	H. Beezinger	3136 E 11th St. Los Angeles 23	AN3-2984
Ga	J. H. Walters	1495 Northside Dr. NW, Atlanta 1	TR6-2691
NY	R. A. Johnson	7701 Empire State Bldg. New York 1	LO5-4830
Okla	R. R. Bush	3130 Sand Springs Rd. Tulsa 1	GI7-5144
Pa	T. O. Carson	390 N Lexington Ave. Pittsburgh 8	CH1-3400
Tex	J. Dvoracek	737 Merc. Continental Bldg. Dallas 1	RI8-2421

ROLOCK INC. ..... 1350 Kings Hwy. Fairfield, Conn FO7-8611

Ill	E. A. Terwell	4328 Elston Ave. Chicago 41	CO7-0600
Ind	J. M. Wheeler	2413 N Kenyon St. Indianapolis 18	FL9-5184
Mich	W. F. Kinney Sales Eng. Co.	19986 James Couzens Hwy. Detroit 35	BR2-1140
NJ	A. M. Beasley	172 River Rd. Red Bank	SH1-8160
NY	H. F. Meyer, Jr.	308 E 73rd St. New York 21	YU8-5753
NY	R. J. Schemeck	40 Lakeview Circle, Skaneateles	OV5-6926
Ohio	S. G. Kroto Co.	Heights-Rockefeller Bldg. Cleveland 18	YE2-9080

ROLLO-RARDY & CO. LTD. Poddockhall Rd. Haywards Heath, Sussex, Eng HE1831

ROOTS-CONNERSVILLE BLOWER DIV.
DRESSER INDUSTRIES, INC. 900 W Mount St. Connersville, Ind 1900

Cal	Roots-Connersville Blower Div.	5120 Pacific Blvd. Los Angeles 58	LU3-1361
Cal	Roots-Connersville Blower Div.	593 Market St. San Francisco 5	EX2-0232
Ga	Roots-Connersville Blower Div.	3166 Maple Dr. NE, Atlanta 5	CE7-0403
Ill	Roots-Connersville Blower Div.	1737 W Howard St. Chicago 26	RR4-8113
Mass	Roots-Connersville Blower Div.	945 Great Plain Ave. Needham 92	HI4-2322
Mich	Roots-Connersville Blower Div.	920 E Lincoln St. Birmingham	MI6-7240
NY	Roots-Connersville Blower Div.	122 E 42nd St. New York 17	OX7-2800
Ohio	Roots-Connersville Blower Div.	5912 Hamilton Ave. Cincinnati 24	LI2-4524
Ohio	Roots-Connersville Blower Div.	1900 Euclid Ave. Cleveland 15	PR1-8355
Pa	Roots-Connersville Blower Div.	357 Lancaster Ave. Haverford	MI2-4638
Pa	Roots-Connersville Blower Div.	Grant Bldg. Pittsburgh 19	AT1-5571
Tex	Roots-Connersville Blower Div.	1619 Ovid St. Houston 10	CA8-2331

ROSEMOUNT ENGINEERING CO. 4900 W 78 St. Maple 24, Minn WA7-7711

Cal	Western Aircraft Supply Co.	815 Moraga Dr. Los Angeles 49	GR6-1931
Colo	Western Aircraft Supply Co.	2755 S Zurich Ct. Denver 19	WE5-8841
Ga	A. C. Craft, Jr.	Box 11716, Atlanta 5	CE3-9944
Mass	J. M. Lancaster Co.	65 Concord St. Framingham	TR3-8893
Mo	Harris-Hanson Co.	2814 S Brentwood Blvd. St. Louis	MI7-4350
Mo	Harris-Hanson Co.	7916 Paseo, Kansas City 30	HI4-2424
Ohio	D. W. Martin	Box 554, Dayton 19	CL3-6175
Pa	Clark, R. F. Co.	1409 Clark Bldg. Pittsburgh 22	AT1-8669
Pa	W. H. Cordray Sales Co.	Barclay Bldg. Bala-Cynwyd	MO4-3344
Tex	Jo-Joyce Engrg. Sales Corp.	137 Walnut Hills Vlg. Dallas	FL7-1411
Wash	Western Aircraft Supply Co.	6518 - 48th Ave. NE, Seattle	LA3-5662
Can	Garrett Mfg. Corp. of Can, Ltd.	4 Racine Rd. Rexdale, Ont	CH4-3655

ROSENBERG ASSOCIATES P. .. 100 Stevens Ave. Mt. Vernon, NY MO7-8040

ROTHERM ENGINEERING CO., INC. 7280 W Devon Ave. Chicago, Ill NE1-9292

Conn	A. E. Jackman	Box 16, Weatogue	OL8-7415
Ill	V. A. Gauger	6677 Northwest Hwy. Chicago 31	SP7-1821
Ky	K. E. Kepler	424 Timberlake St. Erlanger	DI1-4450
Mich	A. J. Werner Co.	502 New Center Bldg. Detroit 2	TR3-4169
Minn	Plant Equipment, Inc.	607 Sexton Bldg. Minneapolis 15	GE8655
NY	G. E. Gibson	1 E 42nd St. New York 17	MU7-1240
Ohio	Therm-Ohio	17011 St. Clair Ave. Cleveland 10	IV6-2550
Pa	Lange Co.	Box 94, Bethayres	TU4-2994
Pa	F. R. Magill Co.	44 McKnight St. Pittsburgh 20	WA1-8500
SC	H. D. Hohm, Inc.	128 Buist Ave. Greenville	GR5-8633
Wash	F. B. Lee Co.	241 Central Bldg. Seattle 4	MU2-1456
Can	Brigadier Eng. Products, Ltd.	290 Decarie Blvd. St. Laurent, Quebec	UN6-6036

ROTRON MANUFACTURING CO. Mechanic Ln. Woodstock, NY

Cal	Dawco Sales, Inc.	6919 San Fernando Rd. Glendale 1	VI9-6101
Fla	G. F. Bohman	711 Magnolia Ave. Orlando	GA5-6860
Ill	Gassner & Clark Co.	6644 N Western Ave. Chicago 45	RO4-0121
Ind	F. J. Campisano	3985 Race Rd. Cincinnati 11	HU1-2652
Mass	L. L. Schley Co.	70 Coolidge Hill Rd. Watertown 72	WA6-0235
Mich	Carrier & Gable, Inc.	155 W Congress St. Detroit 26	WO1-1786
Mo	W. E. Fry & Co. Inc.	406 W 34th St. Kansas City	JE1-5236
NJ	F. F. Sylvester Associates	649 Morris Ave. Springfield	DR8-3324
Ohio	Components Engineering Co.	7461 N Linden Ln. Cleveland 30	VI2-2737
Pa	Rotron Engineering	5823 Greene St. Philadelphia 44	VI4-0990
Tex	Ammon & Champion Co.	2714 Bomar St. Dallas 4	FL7-3939
Va	Dickison Sales Co	107 York Rd. Towson, Md	VA5-1300

ROUSSEAU CONTROLS LTD. .. 640 Decarcelle St. Montreal, Que. Canada WE7-2521

Can	Rousseau Controls Ltd.	2149 Yonge St. Toronto 7, Ont	

ROYAL McBEE CORP. ..... Westchester Ave. Port Chester, NY WE7-3000

RUBBER & ASBESTOS CORP. .. 225 Belleville Ave. Bloomfield, NJ PI8-1300

Ill	Rubber & Asbestos Corp.	3553 W Peterson Ave. Chicago 45	KE9-2214

RUCKER CO. ..... 4700 San Pablo Ave. Emeryville, Cal OL3-5221

Cal	Rucker Co.	4956 Firestone Blvd. South Gate	LO4-2521
Ore	Rucker Co.	1744 SE Hawthorne Blvd. Portland 14	BE4-0541
Wash	Rucker Co.	1705 - 4th Ave. S. Seattle 4	MA2-2783

RUGE ASSOCIATES, INC., ARTHUR C. 21 Elm Ave. Hudson, NH TU2-5195

Ala	R. Attaway Co.	2315 Box Wallace Ave. SW, Huntsville	534-2-2811
Cal	Tech-Ser, Inc.	3540 Wilshire Blvd. Los Angeles 5	DU5-1765
Colo	Parrish Electronics	2130 S Albion, Denver 22	SK6-6884
NJ	Instrumentation Sales Co.	20 Jerome Ave. Glen Rock	RE8-6210
Ohio	Elliott-Sarles Co.	23473 Concord Dr. Cleveland 16	ED1-8911
Pa	Polymetric Devices Co.	2039 Fortune Rd. Glenside	TU7-4873
Wash	Stanley Enterprises	127 River St. Seattle 8	PA3-3320
Can	Electromechanical Products	Markham Rd. Agincourt, Ont	AX3-7011
Ind	B. N. Bose & Co.	5 Waterloo St. Calcutta 1	
Eng	L. Brooke Edwards	25 Paleira Ave. Hove 3, Sussex	
For	Controls & Instrumest (Overseas) Co.	15 E 40th St. New York 16, NY	MU5-5231

RUGGLES-KLINGERMANN MFG. CO. Salem, Mass PI4-3000

Cal	C. Meriam Co.	5017 Telegraph Rd. Los Angeles 22	AN9-8271
Cal	Refrigerating & Pwr. Spec. Co.	380 Brannan St. San Francisco 7	EX4000
Ga	J. A. Postell	936 W Peachtree St. NW, Atlanta 9	TR4-8671
Ill	Foster Power Equip. Co.	612 N Michigan Ave. Chicago 11	SU7-2784
Mass	Ruggles-Klingemann Mfg. Co.	110 Tremont St. Boston	LI2-8778
Mich	A. J. Blecki	2457 Woodward Ave. Detroit 1	WO1-1259
NY	Goodwin & McCall Co.	90 West St. New York 6	RE2-2361
NY	The Stone Co.	1807 Elmwood Ave. Buffalo 7	DE1873
Ohio	Ashmead-Danks Co.	1276 W 3rd St. Cleveland 13	MA1-6192
Pa	Pralatt Equip. Co.	Bourse Bldg. Philadelphia 6	
Pa	E. C. Shriner	1501 Potomac Ave. Pittsburgh 16	LE1-6754
Wash	Branom & Leeland Instr. Co.	2137 2nd Ave. Seattle 1	MA1920

RUST ENGINEERING CO. ..... 2316 4 Ave. N, Birmingham 3, Ala FA3-6561

DC	Rust Engineering Co.	1010 Vermont Ave. NW, Washington 5	
NY	Rust Engineering Co.	60 E 42nd St. New York 17	
Pa	Rust Engineering Co.	930 Fort Duquesne Blvd. Pittsburgh 22	

RUST INDUSTRIAL CO., INC., THE 130 Silver St. Manchester, NH NA3-3596

Cal	E. V. Roberts & Associates	5068 W Washington Blvd. Los Angeles	WE8-2541
Fla	W. A. Brown & Associates	201 Capron Rd. Indian River City	AM7-0411
Mass	H. P. Segel Co. Inc.	386 Washington St. Brookline 46	BE2-7525
Mich	Burcaw-Cowan & Co.	22128 Grand River Ave. Detroit	KE2-7700
Minn	The Heimann Co.	1711 Hawthorne Ave. Minneapolis	FE2-5457
Mo	Engineering Services Co.	6717 Vernon Ave. St. Louis 30	PA6-2223
NY	C. A. Winnick Co.	926 Riverview Rd. Schenectady	ST5-8133
NY	Podeyn-Schmidt	420 Northern Blvd. Great Neck	HU7-1173
Ohio	Scott & Steffen, Inc.	1836 Euclid Ave. Cleveland 15	TO1-2626
Pa	Holdsworth & Co.	Box 71, Landsdowne	MA6-5300
Pa	R. F. Clark Co. Inc.	Clark Bldg. Pittsburgh 22	AT1-8069
Tex	J. T. Schoonmaker Co.	Box 35226, Dallas 35	LA6-7238

RUTHERFORD ELECTRONICS CO. 8944 Lindblade, Culver City, Cal UP0-7393

Cal	Frazar & Hansen, Ltd.	301 Clay St. San Francisco 11	EX2-5112
Cal	G. E. Moxon Electronics Co.	489 S Robertson Blvd. Beverly Hills	BR2-9311
Colo	Williams & Associates, Inc.	2261 S Albion St. Denver 22	SK6-9403
Ill	The Lowell Co.	4124 Skokiana Terr. Skokie	OR5-2063
Md	S. S. Lee Associates, Inc.	2521 Ennalls Ave. Wheaton	LO5-3068
Mass	Broger Instr. Sales Co. Inc.	48 Pearl St. Brookline 47	BE2-4804

Mich	Tower Engineering Co.	19364 James Cousens, Detroit 35	DI1-2332
Minn	The Heimann Co.	1711 Hawthorne Ave. Mapls	FE2-5457
NJ	L. A. Garten & Assoc.	375 Passaic Ave. Caldwell	CA6-7500
NY	NACO Electronics Corp.	119 Luther Ave. Liverpool	GR4-7481
Ohio	Dayton Associates	118 W 1st St. Dayton 2	BA3-9621
Wash	N. R. Schultz Co.	4227 Airport Way, Seattle 8	MA4-8650

RYERSON & SON, INC. JOS. T. — **16 & Rockwell Sts. Chicago 8, Ill** — **RO2-2121**

Cal	J. T. Ryerson & Son, Inc.	4310 E Bandini Blvd. Los Angeles	AN2-6141
Mich	J. T. Ryerson & Son, Inc.	1600 E Euclid Ave. Detroit	TR4-3311
Mo	J. T. Ryerson & Son, Inc.	5 Clinton St. St. Louis	CE1-1020
NY	J. T. Ryerson & Son, Inc.	203 Westside Ave. Jersey City, NJ	HE4-1123
Ohio	J. T. Ryerson & Son, Inc.	3475 Spring Grove Ave. Cincinnati	KI1-3241
Ohio	J. T. Ryerson & Son, Inc.	5300 Lakeside Ave. Cleveland	HE2-1411
Mass	J. T. Ryerson & Son, Inc.	60 Everett St. Boston	ST2-6900
Pa	J. T. Ryerson & Son, Inc.	5200 Grays Ave. Philadelphia	SA4-0700
Pa	J. T. Ryerson & Son, Inc.	Arch St. & Bell Ave. Carnegie	BR9-3900
Tex	J. T. Ryerson & Son, Inc.	4606 Singleton Blvd. Dallas	FE1-4311
Wash	J. T. Ryerson & Son, Inc.	1200 - 4th Ave. S, Seattle	MA4-2300

S.A.I.P. — **35 Rue Gabriel Crie Malakoff, Seine, Fr** — **ALE 87 20**

S. E. P. I. — **4 rue de Londres Paris 9, France** — **PI69-19**

S. I. A. C. — **Via S. Sebastiano 2, Genoa, Italy** — **586651**

NY	Norca Machinery Corp.	350 5th Ave. New York 1	LO4-7225
Aus	Intropa	Rotenturmstra 25, Wien	630711
Belg	S. A Ets. Cromphaut Freres	18 Rue du College, Charleroi	321988
Can	Manufacturers Steel Co.	1410 Stanley St. Montreal 25, Que	
Eng	Guest Industrials Ltd.	81, Gracechurch St. London E.C.3	MA5631
Fr	Ing. A. Vigone	6, Rue Port Mahon, Paris 2	RI7020
Ger	Eduard Inden	Haendelstra 8, Duesseldorf-Benrath	711860
Ital	Siderexport S.p.A.	Piazza Rossetti 3/A, Genova	890721
Nor	Savabini Teknisk A/S	Ovre Slottsgate 7, Oslo	416965
Swed	Savabini A/B-Technical Dept.	Regeringsgatan 57, Stockholm -C	202127
Swit	S.A.P. Molinari & Cie	Corso Pestalozzi 9, Lugano	27851

SAINT GOBAIN 23 Blvd, Georges Clemenceau, Courbevoie, Seine, Fr — **ME1000-2061**

ST. JOHN X-RAY LABORATORY — **Califon, NJ** — **CA49**

SALEM-BROSIUS INC. — **Box 2222, Carnegie, Pa** — **WA2-2200**

SAMPLES MACHINE CO. A.M. — **2908 Tazewell Pike, Knoxville 18, Tenn** — **MY1-5526**

Cal	Westinghouse Elec. Corp.	5815 Peladeau St. Emeryville	
Cal	Radiation Detection Co.	4047 Transport St. Palo Alto	DA3-1279
La	Westinghouse X-Ray Div.	400 N Carrollton Ave. New Orleans	
Md	Health Physics Services, Inc.	1109-13 Low St. Baltimore 2	DI2-2006
Minn	Standard X-Ray Sales Co.	1015 S 6th St. Minneapolis 4	
Minn	General Electric Co.	808 Nicollet Ave. Minneapolis	
Mo	The Dick X-Ray Co.	4000 Olive St. St. Louis 8	FR1-6626
Mo	Aloe Scientific Div.	5655 Kingsbury St. St. Louis	
NJ	St. John X-Ray Lab.	Califon	CA49
NY	Picker Intl. Corp.	19 S Broadway, White Plains	
NY	American Trading Co.	96 Wall St. New York 5	HA2-0373
Tenn	Nuclear Service Lab.	Box 1865, Knoxville 1	7-5475

SANBORN CO. — **175 Wyman St. Waltham 54, Mass** — **TW4-6300**

Cal	Neely Enterprises	3939 Lankershim Blvd. N Hollywood	TR7-0721
Colo	Williams & Associates, Inc.	2261 S Albion St. Denver 22	SK6-9403
DC	Horman Assoc. Inc.	941 Rollins Ave. Rockville, Md.	HA7-7560
Fla	Stiles Associates, Inc.	1226 E Colonial Dr. Orlando	GA5-5541
Ill	Crossley Associates, Inc.	2501 W Peterson Ave. Chicago 45	BR5-1600
Mass	Yewell Associates, Inc.	Middlesex Tnpk. Burlington	BR2-9000
Mich	S. Sterling Co.	15310 W McNichols Rd. Detroit 35	BR3-2900
Mo	Harris-Hanson Co.	2814 S Brentwood Blvd. St. Louis 17	MI7-4350
NJ	G. C. Engel & Assoc.	210 S Broad St. Ridgewood	GI4-1400
NY	E. A. Ossman & Assoc.	830 Linden Ave. Rochester 10	LU6-4945
Pa	I. E. Robinson Co.	2120 Market St. Camp Hill	HE7-6791
Tex	E. Lipscomb Assoc.	3605 Inwood Rd. Dallas 9	FL7-1881

SANDERSON & PORTER — **72 Wall St. New York 5, NY** — **DI4-5550**

SANDUSKY FOUNDRY & MACHINE CO. — **W Market St. Sandusky, Ohio** — **MA6-5340**

Cal	Sandusky Foundry & Machine Co.	316 State St. Los Altos	WH8-2019

SANFORD ALUMINUM PROCESSES — **1330 W Fulton St. Chicago 7, Ill**

SANGAMO ELECTRIC CO. — **11 & Converse Sts. Springfield, Ill.** — **KI4-6411**

Cal	Sangamo Electric Co.	1839 W Pico Blvd. Los Angeles 6	DU7-2336
Cal	L. A. Nott Co.	1061 Howard St. San Francisco 3	HE1-4738
Ga	Cartwright & Bean	3223 Cain's Hill Pl. NW, Atlanta 5	CE7-2273
Ill	Sangamo Electric Co.	7418 W Belmont Ave. Chicago 34	ME7-2656
Mass	Hathaway Electronics, Inc.	238 Main St. Cambridge 42	KI7-0380
Minn	Sangamo Electric Co.	4950 Excelsior Blvd. Minneapolis 16	WA6-9800
NY	F. E. Schmitt Co.	136 Liberty St. New York 6	WO2-6550
NY	Sangamo Electric Co.	2209 Teall Ave. E Syracuse	GL4-2456
Ohio	Sangamo Electric Co.	1720 Section Rd. Cincinnati 37	JE1-0346
Ohio	Sangamo Electric Co.	55 Public Square, Cleveland 13	PR1-3161
Tex	Sangamo Electric Co.	1301 Fidelity Union Bldg. Dallas 1	RI7-1490

SARGENT & LUNDY — **140 S Dearborn St. Chicago 3, Ill** — **FR2-7130**

SARNIA INSPECTION CO. — **246 Tecumseh St. Sarnia, Ont, Can**

Tex	Sarnia Inspection Co.	Baytown	
Can	Sarnia Inspection Co.	430 Marien St. Montreal	

SAUEREISEN CEMENTS CO. — **1045 N. Canal St. Pittsburgh 15, Pa**

Cal	Montgomery Brothers	1122 Howard St. San Francisco	UN1-3300
Conn	W. H. Dittman	97 N Quaker Ln. W Hartford	AD2-6389
Ill	D. P. Falconer	1018 Maple Ave. Evanston	UN4-4719
La	Dixie Supply Co.	2906 Metairie Rd. Metairie	VE4-1324
Mich	E. V. M. Becker Sales	12243 12th St. Detroit	TO8-8528
NY	Aquatron Corp.	505 5th Ave. New York	OX7-6346
Ohio	W. Neundorfer & Co.	2195 S Green Rd. Cleveland	EV2-0140
Okla	Lambcke Engr. Service Co.	Box 15828, Admiral Sta. Tulsa	TE6-4225
Pa	Pringle Co.	7116 McCallum St. Philadelphia	CH7-6843
Tex	R. M. Bevis Co.	5814 Southington Ave. Houston	JA9-3775
Wash	Montgomery Bros.	911 Western Ave. Seattle	MA4-7297
Wis	Dimensional Insulation Co.	5042 W State St. Milwaukee	BR6-0882

SAXONBURG CERAMCS, INC. — **Saxonburg, Pa** — **FL2-1566**

Cal	Golsan Co.	301 Pasadena Ave. S Pasadena	MU2-3301
Ill	A. J. Benson Co.	7633 S Bennett Ave. Chicago 49	SA1-2334
Mich	Libbey & Taylor	419 Curtis Bldg. Detroit 2	TR5-6300
NJ	R. Walker	24 West Rd. Shorthill	DR9-2340
Pa	G. A. Shelps	Box 254, Glenside	KI6-1066
Pa	J. R. Eckley	RD 2 Coxcomb Hill Rd. New Kensington	ED5-2632
Wash	H. D. Campbell Co.	220 9th N, Seattle 9	MA4-3252
Can	Kerr-Machin Associates	Box 34, Sta. K, Toronto 12, Ont	HI4-3643

SCAM INSTRUMENT CORP. — **1811 W Irving Park Rd. Chicago, Ill** — **GR7-7850**

SCHAEVITZ ENGINEERING — **Rt. 130 & Schaevitz Blvd. Pennsauken, NJ**

Cal	J. Edwards Co.	4101 Lankershim Blvd. N Hollywood	TR7-9603
Cal	Electronic Eng. Assoc. Ltd.	1296 Laurel St. San Carlos	LY3-2198
Colo	Hyde Electronics Co.	888 S Lipan St. Denver 23	WE6-3456
Fla	P. Brand	Box 882, Bradenton	BR5-2419
Ga	P. Brand	Atlanta Office	CE3-0727
Ill	Lightner Associates	6322 N Milwaukee Ave. Chicago 46	SP4-1500
Mich	S. Sterling Co.	15310 W McNichols Rd. Detroit	BR3-2900
Minn	Arrow Technical Sales	Box 7458, Minneapolis 22	LI5-6595
NY	Components Sales Corp.	218 E Hartsdale Ave. Hartsdale	SC5-1050
Ohio	S. Sterling Co.	5827 Mayfield Rd. Cleveland 24	HI2-8080
Tex	Southwest Electronic Industries	4515 Prentice St. Dallas 6	EM3-1671
Can	Electromechanical Products	Markham Rd. Agincourt, Ont	AX3-7011

SCHLEICHER & SCHUELL CO. CARL — **Keene 8, NH** — **EL2-3606**

SCHMIDT INSTRUMENT CO. — **Box 111, San Carlos, Cal** — **LY1-5347**

SCHOENFELD, DAVID M. — **New Canaan, Conn** — **WO6-2309**

SCHUELER & CO. — **75 Cliff St. New York 38, NY** — **BE4-3200**

Eng	Schuco International, Ltd.	46 Ravensdale Ave. London N 12	
Ger	Schuco International, KG	Never Wall 64, Hamburg	

SCHUTTE & KOERTING CO. — **Cornwell Heights, Bucks County, Pa** — **ME9-0900**

SCIAKY BROS., INC. — **4915 W 67 St. Chicago 38, Ill** — **PO7-5600**

Cal	Sciaky Bros. Inc.	2311 Purdue Ave. Los Angeles 64	BR2-7871
Cal	Sciaky Bros. Inc.	2311 Purdue Ave. Los Angeles 64	BR2-7871
DC	Sciaky Bros. Inc.	1500 Massachusetts Ave. NW, Wash 5	CO5-5610
Mass	Sciaky Bros. Inc.	6 Beacon St. Boston 8	CA7-1515
Mich	Sciaky Bros. Inc.	7430 2nd Blvd. Detroit 2	TR5-6800
Mo	Sciaky Bros. Inc.	701 E 63rd St. Kansas City 13	DE3-5480
Mo	Sciaky Bros. Inc.	3003 Olive St. St. Louis	JE5-5854
NY	Sciaky Bros. Inc.	1775 Broadway, New York 19	CI6-7740
Ohio	Sciaky Bros. Inc.	421 Bulkley Bldg. Cleveland 15	PR1-0060
Eng	Sciaky Elec. Welding Machines, Ltd.	Slough, Bucks	
Fr	Sciaky S. A.	13, 15 Rue Charles Fourier, Paris	

SCIENCE ASSOCIATES — **194 Nassau St. Princeton, NJ** — **WA4-4470**

SCIENTIFIC EQUIPMENT CO. — **Box 19086 Indianapolis 19, Ind** — **LI5-1404**

SCIENTIFIC GLASS APPARATUS CO., INC. — **100 Lakewood Ter. Bloomfield, NJ** — **PI3-2200**

Ill	Scientific Glass Appar. Co. Inc.	2375 Pratt Blvd. Elk Grove Village	HE9-2500
Md	Scientific Glass Appar. Co. Inc.	9419 Georgia Ave. Silver Spring	JU7-5600
Mass	Scientific Glass Appar. Co. Inc.	755 Boylston St. Boston	KE6-7594
NY	Scientific Glass Appar. Co. Inc.	1547 Central Ave. Albany 5	UN9-9141
Pa	Scientific Glass Appar. Co. Inc.	5915 Chester Ave. Philadelphia 43	SA4-1313

SCINTILLA DIV. BENDIX CORP. — **Sidney, NY** — **LO3-9511**

SCOTT (ELECTRONIC ENGRG.) LTD., JAMES — **68 Brockville St. Glasgow E2, Scot** — **SH4206**

NY	Ferranti Electric Inc.	95 Madison Ave. Hempstead	IV3-8244

SCOTT, INC., H. H. — **111 Powder Mill Rd. Maynard, Mass** — **TW7-8801**

Cal	W. K. Geist Co.	3177 Glendale Blvd. Los Angeles	NO5-1195
Ga	V. Avis McCorvey Co.	105 W Howard Ave. Decatur	DR7-6167
Ill	Karet-Margolin, Inc.	1803 W Belle Plaine Ave. Chicago 13	WE5-4642
Mich	Electro-Mation Association	4012 E 9 Mile Rd. Warren	JE9-1420
Mo	R. R. Shaw Co.	7800 Kneridge Ln. Webster Groves 19	WO2-1590
NY	Telesco Intl. Corp.	171 Madison Ave. New York 16	PE6-2165
NY	Crane & Egert Corp.	97 Reade St. New York 13	WO4-0996

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Ohio	Martin-Rettger, Inc.	11955 Shaker Blvd. Cleveland 20	SW1-8787
Wash	Ray Johnston Co.	1011 E 69th St. Seattle	LA4-6170
	SCOVILL MFG. CO. MILLS DIV.	**99 Mill St. Waterbury 20, Conn**	**PL4-1171**
Cal	Scovill Manufacturing Co.	6464 E Flotilla St. Los Angeles 22	OV5-7300
Cal	Scovill Manufacturing Co.	434 Brannan St. San Francisco 7	GA1-1923
Ill	Scovill Manufacturing Co.	4105 W Chicago Ave. Chicago 51	NE5-2000
Mass	Scovill Manufacturing Co.	1116 Great Plain Ave. Needham 92	HI4-3810
Mich	Scovill Manufacturing Co.	410 W Congress St. Sturgis	OL1-3251
NY	Scovill Manufacturing Co.	161 E 42nd St. New York 17	OX7-3222
NY	Scovill Manufacturing Co.	175 Dodge St. Rochester 6	GL3-0194
NC	Scovill Manufacturing Co.	1108 E Wendover Ave. Greensboro	BR2-8123
Ohio	Scovill Manufacturing Co.	2330 Glendale-Milford Rd. Cincinnati 15	PR1-8975
Ohio	Scovill Manufacturing Co.	4635 W 160th St. Cleveland 35	OR1-1500
Pa	Scovill Manufacturing Co.	2536 S 59th St. Philadelphia 43	SA6-8125
RI	Scovill Manufacturing Co.	183 Public St. Providence 3	DE1-3362
	SEALOL, INC.	**Warwick Ind. Pk. Providence 5, RI**	**ST1-4700**
Cal	Roy F Gratiot Co.	1261 S Glendale Ave. Glendale 5	CH5-3746
Cal	Sealol, Inc.	383 4th St. San Francisco 7	YU2-0800
Colo	William A Rissman	1235 Albion St. Denver	FL5-7260
Fla	Les Rodgers & Associates	2109 S Division St. Orlando	
Ill	Sealol, Inc.	5838 N Pulaski, Chicago	IN3-6707
NY	Sealol, Inc.	11 Broadway, New York	WH3-7936
NY	Sealol, Inc.	204 Babylon Pike. Roosevelt	MA3-8090
Ohio	Sealol, Inc.	13305 Union Ave. Cleveland	WA1-7234
Pa	Sealol, Inc.	Box 265, Media	TR2-2226
RI	W. L. Dutton	33 Knowles Dr. Warwick	HO3-8742
Tex	Sealol, Inc.	710 Mimosa, Pasadena	GR2-2318
Can	Scott Fittings Ltd.	159 Bay St. Toronto 18	EM6-4921
	SEALTRON CORP.	**Reading Rd. at Amity, Cincinnati 15, Ohio**	**VA1-7444**
Cal	J. Edwards Co.	4101 Lankershim Blvd. N Hollywood	ST7-9603
Cal	B. Kolans & Co.	219 California Dr. Burlingame	DI4-7111
Colo	C. F. L. Co.	1871 S Broadway, Denver 10	
Ga	V. A. McCorvey Co.	215 Church St. Decatur	DR7-6167
Ill	D. Dolin Sales	3653 W Peterson Ave. Chicago 45	JU8-3738
Mich	Heckenberg Associates	19364 James Couzens Hwy. Detroit 35	DI1-3872
NY	Willgold Electronic Sales Corp.	Rockville Center	RO4-4022
Pa	Hilliard Associates	1125 Old York Rd. Abington	TU4-6100
Pa	J. W. Kight	4 Longfellow Rd. Pittsburgh 15	ST1-8304
Tex	Thomson Engineering Service	2520 Oak Lawn Ave. Dallas 19	LA6-8741
Wash	S. H. Stroum Co.	621 Michigan St. Seattle 4	EA3-6117
	SELAS CORP. of AMERICA	**Dresher, Pa**	**HI5-5605**
Cal	Selas Corp. of America	1901 W 8th St. Los Angeles 57	DU8-2391
Conn	Selas Corp. of America	860 Park Ave. Bloomfield	CH2-2342
Ill	Selas Corp. of America	3657 W Washington Blvd. Chicago	VA6-5443
Mich	Selas Corp. of America	334 Lexington Bldg. Detroit 2	TR5-1221
NJ	Selas Corp. of America	9 Clinton St. Newark 2	MA3-5226
NY	Selas Corp. of America	895 Winton Rd. S, Rochester 18	GR3-6370
Ohio	Selas Corp. of America	1925 Lee Rd. Cleveland 18	FA1-6800
Ohio	Selas Corp. of America	333 W 1st St, Dayton 2	BA8-9002
Pa	Selas Corp. of America	300 Mt. Lebanon Blvd. Pittsburgh 34	LO1-0115
Tex	Selas Corp. of America	8312 Hempstead Rd. Houston 7	UN4-7751
Wash	Selas Corp. of America	Boeing Fld. Box 37, Seattle 8	PA3-5940
	SELO	**Via Manfalcone 12, Milano, Ital**	**25.20.30**
	SEMI-ALLOYS INC.	**550 S Fulton Ave. Mt. Vernon, NY**	**MO4-2800**
Ariz	C. Hower & Co.	340 N Marshall Ave. Scottsdale	WH5-2471
Cal	McKnight Co.	1436 El Camino Real, Menlo Park	DA6-3762
Mass	T. Kennedy & Co.	19 Forest Dr. Wakefield	CR6-5532
Mo	W. E. Fry & Co. Inc.	406 W 34th St. Kansas City	JE1-5236
NY	C. D. B. Enterprises, Inc.	501 Broadway, Hicksville	WE8-8644
	SEMI-ELEMENTS INC.	**Saxonburg Blvd. Saxonburg, Pa**	**FL7-1548**
Cal	D. Ellis Co.	919-D E California St. Pasadena	MU1-2108
Colo	W. H. Connors Co.	375 Birch St. Denver 20	DE3-7628
Conn	J. F. White & Co.	100 Hillcrest Rd. Windsor	MU8-1000
Ill	Proctor Sales Co.	3401 W Deversity, Chicago 47	DI2-0570
Mich	J. Rathsburg Assoc.	3539 Townsend Ave. Detroit 14	WA1-3932
NJ	Ingersoll Assoc.	Box 771, Camden 1	WO3-5554
NY	Verter Sales Co.	2352 E 66th St. Brooklyn 34	HI4-3880
NC	Buthan, Inc.	4924 Oleander Dr. Wilmington	RO2-5749
Can	Ahearn & Soper Co. Ltd.	850 Belfast Rd. Ottawa	CE6-9441
	SENSITISED COATINGS, LTD.	**42 Dingwall Rd. E Croydon, Surrey, Eng**	
	SEQUOIA WIRE & CABLE CO. SUB. ANACONDA WIRE & CABLE CO.	**25 Broadway, New York 4, NY**	**HA2-6300**
Cal	W. Gaylord	1255 Post St. San Francisco 9	PR6-4111
Cal	A. Leader	816 W 5th St. Los Angeles 17	MA6-2371
Colo	K. Eaton	706 Railway Exchange Bldg. Denver 2	AC2-0616
Ga	M. Black	1915 Rhodes-Haverty Bldg. Atlanta 3	JA5-2062
Ill	E. Miller	20 N Wacker Dr. Chicago 6	FR2-5200
La	N. Pollard	240 Caribe Bldg. New Orleans 19	JA2-2731
Mass	D. O'Leary	824 Boylston St. Boston 67	LO6-4268
Mich	W. Olsen	621 New Center Bldg. Detroit 2	TR2-2800
Mo	W. Carter	106 W 14th St. Kansas City 5	JA3-2282
Pa	W. S. Shanahan	1616 Walnut St. Bldg. Philadelphia 3	PE5-8118
Tex	J. Ratcliff, Jr.	639 Texas Natl Bank Bldg. Houston 2	CA8-2375
	SERVOMECHANISMS, INC.	**200 Aviation Blvd. El Segundo, Cal**	**ORB-7841**
Cal	C. W. Mauldin Co.	441 W California Ave. Palo Alto	DA4-2135
Fla	W. A. Brown & Associates, Inc.	201 Capron Rd. Indian River City	IN6[illegible]
Ill	Hugh Marsland & Co.	6699 Lincoln Ave. Chicago 45	OR6-1106
NJ	L. P. Comerford	515 8th St. Riverside	HO1-0[illegible]
NY	Servomechanisms Inc Mechatrol Div 1200 Prospect Ave. Westbury		
Ohio	J. F. Lent	1107 3rd National Bldg. Dayton 2	BA2-2113
Tex	C. J. Kemp Co.	Box 13251, Dallas 29	CH7-5031
Wash	Seatronics, Inc.	1806 Bush Pl. Seattle 44	CA8545
	SERVONUCLEAR CORP.	**28-21 Astoria Blvd. Long Island City, NY**	**YE2-3353**
	SERVO UNITS, LTD. 273 Farnborough Rd. Farnborough, Hants, Eng		**FA1120**
NY	British Industries Corp.	80 Shore Rd. Port Washington	PO7-7700
Can	J. Herring & Co. Ltd.	3468 Dundas St. W, Toronto, Ont	RO2-9824
	SETHCO MFG. CORP.	**2284 Babylon Tnpk. Merrick, NY**	**MA3-4220**
	SHALLCROSS MFG. CO.	**Selma, NC**	**WO5-2341**
Cal	J. C. Van Gross Co.	Box 425, Woodland Hills	DI0-3131
Colo	Vinson Associates	3600 S Lincoln, Englewood	WH5-7266
Fla	Lynch-Gentry Associates	406 Danley Dr. Ft. Myers	WY5-2151
Ill	J. C. Angel Co.	2743 W Peterson Ave. Chicago 45	UP8-0652
Mass	Elron Engineering Sales, Inc.	246 Walnut St. Newtonville 60	DE2-6975
NY	B. B. Taylor Corp.	2270 Grand Ave. Baldwin	BA3-8900
NC	K. O. Brown Co.	Box 1791, Greensboro	BR3-5973
Ohio	A. C. Wahl & Associates	Box 213, Cincinnati	VA1-3270
Pa	Danco Corp.	Germantown Pike, Fairview Village	SU5-2600
Tex	G. Weinreich & Associates	1210 Old Gate Ln. Dallas 18	DA1-2800
Wash	C. B. Parsons & Co.	3028 1st Ave. Seattle	MU2-6780
Can	J. Herring & Co., Ltd.	3468 Dundas St. Toronto 9	RO2-9824
	SHAMBAN & CO., W S.	**11617 W Jefferson Blvd. Culver City, Cal**	**EX7-2195**
Ind	W. S. Shamban & Co.	Meyer Rd. Fort Wayne	AN6481
Mass	R. Pearl	Boston	HA6-5244
Mich	J. Cavanaugh	1548 Foley, Ypsilanti	HU3-5580
Mo	R. B. Wolfe	701 E 63rd St. Kansas City	HI4-6752
NY	W. Whitney	160 Woodbine Ct. Floral Park	HU8-1756
Ohio	J. Warner	5367 Strawberry Ln. Willoughby	WH2-5122
Wash	M. Poggi	208 Carlson Bldg. Bellevue	GL4-5648
	SHARP LABORATORIES, INC.	**Box 1302 La Jolla, Cal**	**GL9-3211**
Cal	Baird-Atomic, Inc.	2321 W Redondo Beach Blvd. Gardena	FA1-4466
Cal	Baird-Atomic, Inc.	1485 Bayshore Blvd. San Francisco	DE4-0515
Ga	Baird-Atomic, Inc.	3127 Maple Dr. NE, Atlanta 5	CE3-8295
Ill	Baird-Atomic, Inc.	540 N Lake Shore Dr. Chicago 11	MI2-8755
Md	Baird-Atomic, Inc.	9403 Fremo Rd. Bethesda 14	OL6-1200
Mass	Baird-Atomic, Inc.	6A Muzzey St. Lexington 73	VO2-9500
Mich	Baird-Atomic, Inc.	30129 Minton, Livonia	GA1-7169
NY	Baird-Atomic, Inc.	811 W Merrick Rd. Valley Stream	CU5-5400
Pa	Baird-Atomic, Inc.	413 Johnson St. Jenkintown	WA7-4676
Pa	Baird-Atomic, Inc.	Box 207, Monroeville	EL1-1500
Tex	Baird-Atomic, Inc.	5635 Yale Blvd. Dallas 6	EM1-6081
Can	Baird-Atomic, Inc.	465 Gilmour St. Ottawa, Ont	
	SHARPE, LEON M.	**61 Broadway, New York 6, NY**	
	SHATTUCK CHEMICAL CO. S. W.	**1805 S Bannock St. Denver 23, Colo**	**RA2-2549**
NY	Millmaster Chemical Corp.	99 Park Ave. New York 16	MU7-2757
	SHEFFIELD CORP. SUB BENDIX CORP.	**721 Springfield St. Dayton 1, Ohio**	**CL4-5377**
Cal	Sheffield Western Corp.	3630 San Fernando Rd. Glendale	CI4-8431
Kan	R. E. Ruppert	2700 W 77 St. Kansas City	HE2-7474
Mass	Sheffield Tool Corp.	16 Bliss Ave. Hebronville	AT1-2423
Mich	Sheffield Michigan Sales Corp.	14031 Puritan Ave. Detroit	VE7-2032
NM	L. Reichbauer	1802 Ridgecrest, SE, Albuquerque	AL5-4280
NY	F. W. Blanchette Co.	845 Bloomfield Ave. Clifton	GR1-2100
Ohio	Sheffield Central Sales Corp.	721 Springfield St. Dayton	CL4-5377
Tenn	B. Watts Machinery Co.	1450 Mississippi, Memphis	WH2-2497
Wash	F. P. Rogers Co.	520 1st Ave. S, Seattle	MA2-7667
	SHELL OIL CO. LUBRICANTS DIV.	**50 W 50th St. New York, NY**	**JU6-5000**
Cal	Shell Oil Co.	100 Bush St. San Francisco	EX2-5400
Can	Shell Oil Co.	Box 400, Toronto	EM2-5522
Eng	Shell Intl. Oil Co.	St. Helena Ct. London	
	SHIELDALLOY CORP.	**Newfield, NJ**	**DX2-4200**
Cal	G. Sondraker & Co.	4700 E 48th St. Los Angeles 58	LU7-2224
Mich	Shieldalloy Corp.	14360 Livernois Ave. Detroit 38	TO9-2373
NY	Shieldalloy Corp.	99 Park Ave. New York 16	OX7-0650
Pa	Shieldalloy Corp.	1328 Oliver Bldg. Pittsburgh 22	CO1-6342
Wis	Wehco Representatives	155 E Silver Spring Dr. Milwaukee 17	EDI-7705
Can	Metallurg Canada, Ltd.	200 Bay St. Toronto, Ont	
	SHORT BROS & HARLAND, LTD.	**Queens Island, Belfast, Ireland**	
Eng	Short Bros & Harland Ltd.	208A Regent St. London W1	HENT16
	SHOWA DENKO K. K.	**34 Shiba Miyamoto-cho, Minato-ku, Tokyo, Jap**	**431-7101**
NY	Showa Denko	39 Broadway, New York 6	WH4-9100
W Ger	Showa Denko	Jan-Wellem-Platz 3, Dusseldorf	DU1-0768
	SHRIVER & CO., INC., T.	**864 Hamilton St. Harrison, NJ**	**HU4-2500**
Cal	Western Sales Engineers, Inc.	4900 Loma Vista Ave. Los Angeles 58	LU7-5600
Ga	J. D. Robertson, Inc.	3133 Maple Dr. NE, Atlanta 5	CE7-1506
Ill	Stolley & Oriebeke	605 W Washington Blvd. Chicago 6	DE2-1737
Mich	J. W. Eakins Co.	13040 Capital Ave. Oak Park, Detroit 37	JO6-1461

Mo	Process Engrg. & Equip. Co.	9011 Manchester Rd. St. Louis 17	WO2-5676
NY	Filtration Unlimited	1660 Kenmore Ave. Buffalo 23	VI4468
Ohio	P. M. Kline & Associates	2036 E 22nd St. Cleveland 15	CH1-1171
Tex	The Watts Co.	2323 University Blvd. Houston 5	MO7-8333
Can	Richardson Agencies, Limited	164 Bentworth Ave. Toronto 19, Ont	RU7-4961
Mex	J. M. Cabrera	Cinco de Mayo 32 - 416, Mexico 1, D. F.	

INURITE METERS ..... **130 Wallace St. New Haven 8, Conn** **ST7-5826**

Cal	H. M. Saul & Associates	5015 San Vicente Blvd. Los Angeles 19	WE8-3591
Ga	J. Millar Associates	1036 Peachtree St. NE, Atlanta 9	TR6-0919
Ill	Instrument Sales Co.	3647 W Lawrence Ave. Chicago 25	CO7-4646
Ind	W. W. Bieberich & Sons	2817 Plaza Dr. Ft. Wayne 5	KE2928
Mass	Adams-McGregor Associates	66 Lakeview Rd. Lincoln, RI	PA6-1300
Mich	Henschen-Jensen & Co.	2842 W Grand Blvd. Detroit 2	TR1-0308
Minn	The Heimann Co.	1711 Hawthorne Ave. Minneapolis 3	FE2-5457
Mo	H. A. Roes & Co.	2601 Cherry St. Kansas City 8	BA1-0866
NY	D. F. Tobias & Co.	30 Church St. New York 7	CO7-4349
Ohio	C. H. Dolfus, Jr. & Co.	21st & Payne Ave. Cleveland 14	PR1-1270
Pa	Massey Associates	529 Brookhurr Ave. Philadelphia	MO4-4200
Tex	Lund & Co.	2215 N Olive t. Dallas 14	RI8-8839

SICKLES DIV. GEN. INSTRUMENT CORP. 165 Frost St. Chicopee, Mass

Cal	Logan & Stone	1485 Bayshore Blvd. San Francisco	
Conn	Todino Engineering Sales	1007 Farmington Ave. W Hartford 7	AD2-9532
Fla	C. Small	Box 1346, Orlando	
Mass	Todino Engineering Sales Co.	50 Kearney Rd. Needham 94	HI4-7925
Mass	Gerber Sales Co.	48 Pearl St. Brookline 16	
Mich	A.B.M. Sales	10116 Puritan Ave. Detroit 38	UN2-1300
NY	Donert Associates	353 W 57th St. New York 19	CI6-2350
NY	Kahgan Sales Corp.	1261 Broadway, New York 1	MU4-7772
NY	J. K. McDonough	2070 Sheridan Dr. Kenmore 23	
Ohio	G&H Sales Co.	Box 416, Cincinnati 37	
Pa	P. Lepofsky	1345 Kimberly Dr. Philadelphia	
Tex	J. W. Stanfield	4515 Prentice St. Dallas	

SIEMENS & HALSKE AG ..... **Rheinbruchenstre 50, Karlsruhe, Ger** **8951**

NY	Siemens New York Inc.	350 5th Ave. New York 1	LO4-7674
Aus	Siemens & Halske AG. (Aus) Pty. Ltd.	34 Queens Rd. Melbourne S. C. 8	B.M. 3656/58
Can	The Ahearn & Soper Co. Ltd.	384 Bank St. Ottawa 4, Ont.	CE 94 41
Eng	Siemens & Halske AG.	8 Baker St. London W 1	HU1441
Fr	Siemens S. A. F.	128 Rue du Faubourg, St. Honore, Paris 8	EL55-28
Ind	Siemens Eng. & Mfg. Co. of India	Box 543, New Delhi	43 121/22
Ital	Siemens Societa per Azioni	Casella Posale 3397, Milano	69 92
Jap	Siemens Liaison Office	Central Box 1144, Tokyo	23/2735
Mex	Siemens Mexicana, S. A.	Apt. 21 048, Mexico 4	46 93 91
S Af	Siemens S. A. (Pty.) Ltd.	Box 4583, Johannesburg	23-8391/95
Spn	Siemens Industria Electrica, S. A.	Apt. 66, Bilbao	12 036
Turk	Simko Ticaret ve Sanaye A. S.	P K 64 Tophane, Istanbul/Findikli	49 34 10

SIEMENS-PLANIA CHEM. FABRIK Grieshein, Meitingen Uber Augsburg, Ger

Aust	Siemens & Halske GmbH	Wien III/40, Apostelgasse 12
Belg	Soc Nouvelle Siemens SA	111 Chaus. de Charleroi, Brussel
Den	E. Abildgaard	Skindergade 29, Kopenhagen K.
Eng	Hoechst Chemicals Ltd	50 Jermyn St. London SW1
Fr	Peralta	10 Rue Clement-Marot, Paris
Holl	Neder. Siemens Maatschappij N. V.	Box 1068, 's-Gravenhage
Ind	Siemens Eng & Mfg Co Ind Pr. Ltd.	Box 715, Calcutta 12
Ital	Elettrocarbonium SpA	Via Borghetto, 5 Milano
Nor	Proton Aksjeselskapet	Rosenkrantzgaten 11, Oslo
Spn	Siemens Ind Electrica SA	Barquillo 38, Madrid
Swed	H. Lickfett AB	Sveavagen 21, Stockholm
Switz	Siemens Elek. AG	Lowenstr 35, Zurich

SIEMENS-REINIGER-VERKE AG Loitpoldstr. 45, Erlangen, Ger

SIGMA INSTRUMENTS, INC. ..... **170 Pearl St. S Braintree 85, Mass.** **VI3-5000**

Cal	E. V. Roberts & Associates, Inc.	5068 W Washington Blvd. Los Angeles 16	WE8-2541
Colo	A. I. Williams Co.	2263 S Albion St. Denver 22	SK6-9403
Fla	Buchanan & Abrams Assoc.	1224-26 E Colonial Dr. Orlando	GA3-8995
Ill	R. M. Hill & G. E. Gray, Inc.	821 Garfield St. Oak Park	ES8-7055
Mich	S. Sterling Co.	15310 W McNichols Rd. Detroit 35	BR3-2900
NY	O. F. Masin Co.	1 Wolf's Ln. Pelham 65	PE8-4510
NY	H. C. Johnson Agencies, Inc.	111 Mt. Hope Ave. Rochester 20	HA6-1090
NC	D.G.W. Inc.	3389 Nottingham Rd. Winston-Salem	
Ohio	Technical Associates	4475 Lander Rd. Chagrin Falls	TE1-9884
Ohio	J. W. Murray	3985 Race Rd. Cincinnati 11	HU1-8726
Pa	Naudain-Bohaker & Co.	846 Suburban Sta. Bldg. Philadelphia 3	LO4-3194
Tex	Campion Sales Co.	9002 Chancellor Row, Dallas 35	FL7-4095

SILICON TRANSISTOR CORP. .. **150 Glen Cove Rd. Carle Place, NY** **PI2-4100**

Cal	J. Berman Co.	1141 S LaCienega Blvd. Los Angeles 35	OL5-8920
Cal	F. W. Meulthrop Co.	575 10th St. San Francisco 3	MA1-0722
Conn	H. Lavin Associates, Inc.	Box 196, Meriden	BE7-5527
Fla	F. C. Nickerson Co.	Box 38-2, Little River Sta. Miami	FL1-4692
Ill	D. Dolin Sales	3553 W Peterson Ave. Chicago 45	JU8-3738
Mo	R. W. Farris Co. Inc.	406 W 34th St. Kansas City 11	FL3-5355
NJ	H. Gray Associates	46 Tenafly Rd. Tenafly	LO7-3545
NY	Naylor Electric Co. Inc.	1718 Erie Blvd. E. Syracuse 3	GR2-9183
NC	F. C. Nickerson Co.	2334 Orton St. Charlotte 8	
Ohio	J. O. Olsen Co.	16201 Shaker Blvd. Cleveland 20	SK2-5444
Pa	Danco Corp.	Fairview Village	BM5-2606
Tex	H. Lieberman & Associates	6006 Northwood Rd. Dallas 25	EM3-3452

SILICONES DIV. UCC ..... **270 Park Ave. New York 17, NY** **LL1-5822**

Cal	Silicones Div. UCC	2770 Leonis Blvd. Los Angeles 58	LU3-5041
Ga	Silicones Div. UCC	1371 Peachtree St. Atlanta 9	TR3-2341
Ill	Silicones Div. UCC	230 N Michigan Ave. Chicago 1	FI6-3300
Mass	Silicones Div. UCC	300 1st Ave. Boston 94	HI4-5400
Mich	Silicones Div. UCC	19421 W 7 Mile Rd. Detroit 21	DI1-3131
NJ	Silicones Div. UCC	Pleasant Valley Rd. & Rt. 38, Moorestown	BE5-6200
Ohio	Silicones Div. UCC	1300 Lakeside Ave. Cleveland 14	MA1-4202
Pa	Silicones Div. UCC	655 The Oliver Bldg. Pittsburgh 22	EX1-3800
Tex	Silicones Div. UCC	1511 Bryan St. Dallas 1	RI1-9176

SIMMONDS, LTD., L. E. ..... **Byron Rd. Harrow, Middlesex, Eng**

SIMMONDS PRECISION PRODUCTS INC. 105 White Plains Rd. Tarrytown, NY **ME1-7500**

Cal	Simmonds Precision Prods. Inc.	4514 Morrell St. San Diego 9	BA4-3940
Cal	Simmonds Precision Prods. Inc.	1515 S Gardena Ave. Glendale 4	CH5-2651
DC	Simmonds Precision Prods. Inc.	1729 "H" St. NW, Washington	ME8-2908
Mich	Simmonds Precision Prods. Inc.	20131 James Couzens, Detroit 35	BR3-7651
Ohio	Simmonds Precision Prods. Inc.	2801 Far Hills Ave. Dayton 19	AX8-6011
Tex	Simmonds Precision Prods. Inc.	214 Amer. Bank & Tr. Bldg. Dallas	WH3-8224

SIMPLEX VALVE & METER CO. **7 E Orange St. Lancaster, Pa** **EX4-3792**

SIMPLEX WIRE & CABLE CO. **79 Sidney St. Cambridge 39, Mass** **KI7-9000**

Ga	Simplex Wire & Cable Co.	1231 Healey Bldg. Atlanta 3	JA5-2959
Ill	Simplex Wire & Cable Co.	4425 James Pl. Melrose Park	MU1-1760
Mass	Simplex Wire & Cable Co.	79 Sidney St. Cambridge 39	KI7-9000
Mich	Simplex Wire & Cable Co.	1222 United Artists Bldg. Detroit 26	WO1-9127
Mo	Simplex Wire & Cable Co.	4 N 8th St. St. Louis 1	CH1-2468
NY	Simplex Wire & Cable Co.	100 Park Ave. New York 17	LE2-1167
NY	Simplex Wire & Cable Co.	Box 8186, Rochester 17	TE4-9458
Ohio	Simplex Wire & Cable Co.	Union Commerce Bldg. Cleveland 14	CH1-0050
Okla	Simplex Wire & Cable Co.	711 Mid-Continent Bldg. Tulsa 3	DE3-0584
Pa	Simplex Wire & Cable Co.	Union Trust Bldg. Pittsburgh 19	AT1-5055
Tex	Simplex Wire & Cable Co.	2444 Times Blvd. Houston 5	JA3-7484
Tex	Simplex Wire & Cable Co.	111 Professional Bldg. Dallas 18	DA1-6328

SIMPSON ELECTRIC CO. DIV.
AMER. GAGE & MACH. CO. .. **5200 W Kinzie St. Chicago 44, Ill** **ES9-1121**

Cal	C. R. Lynch & Son	3307 Glendale Blvd. Los Angeles 39	NO3-8236
Cal	W. J. Purdy Associates	312 7th St. San Francisco 3	UN3-3200
Colo	R. G. Bowen Co. Inc.	721 S Broadway, Denver 9	SA2-4641
Mass	P. R. Sturgeon Inc.	35 Huntington Ave. Boston 16	CO6-7706
Mich	R. C. Merchant & Co. Inc.	18411 W McNichols Rd. Detroit 19	KE5-6300
Minn	M. Foster Inc.	2402 Hennepin Ave. Minneapolis	FR4-7612
Mo	N. W. Kathrinus & Co. Inc.	4356 Duncan Ave. St. Louis 10	OL2-7005
NY	Simpson Instrument Sales Inc.	130 Cutter Mill Rd. Great Neck	MU3-0674
Ohio	Bashr, Greenleaf & Assoc. Inc.	14700 Detroit Ave. Cleveland 7	AC1-9030
Pa	S. K. MacDonald Inc.	1531 Spruce St. Philadelphia 2	KI5-1205
Tex	J. Y. Schoonmaker Co., Inc.	5928 Redfield St. Dallas 35	LA6-7238
Wis	E. A. Dickinson & Associates	4117 N Green Bay Ave. Milwaukee 9	CO4-1080

SINGMASTER & BREYER, INC. **420 Lexington Ave. New York 17, NY**

SINTERED PRODUCTS, LTD. .. **Hamilton Rd. Sutton-Ashfield, Notts, Eng** .. **SU590**

SKINNER ELECTRIC VALVE DIV. SKINNER CHUCK CO.
95 Edgewood Ave. New Britain, Conn. **BA5-6421**

Ariz	Western Control Equip. Co.	1400 N 32nd St. Phoenix	BR5-2013
Cal	Western Control Equip. Co.	3573 Pierce St. San Francisco 23	WE1-2158
Cal	Western Control Equip. Co.	14615 Ventura Blvd. Sherman Oaks	ST3-3040
Ill	Skinner Elec. Valve Div.	549 W Randolph St. Chicago 6	CE6-0870
Mass	A. Williams	Box 86, West Medway	KE6-1011
Mich	C. W. Blessed	323 Wimbleton, Birmingham	JO4-5633
NY	Lane Engineering Co.	1807 Elmwood Ave. Buffalo 7	HO770
Ohio	E. C. Hughes, Jr.	Box 124, Cincinnati 24	LI2-4738
Ohio	R. A. Bowers	6677 Solon Blvd. Solon	EX1-8115
Pa	Rothenheber & Co., Inc.	53 Cricket Ave. Ardmore	MI2-6911

SMALL MOTORS, INC. ..... **2076 Elston Ave. Chicago 14, Ill** **AR6-6900**

SMITH CORP. A. O., ATOMIC &
PROCESS EQUIP. DIV. ..... **3533 N 27 St. Milwaukee 1, Wis** **UP3-3000**

SMITH-FLORENCE, INC. ..... **4228 23 Ave. W, Seattle, Wash** **AT4-0170**

Cal	C. W. Mauldin Co.	441 W California Ave. Palo Alto	DA6-5291
Cal	Van Groos Co.	Box 425, Woodland Hills	DI0-3131
Fla	Col-Ins-Co. Inc.	5728 Precision Dr. Orlando	CH1-1501
Minn	Northport Engineering, Inc.	1729 Selby Ave. St. Paul 4	MI0-2621
NY	Burlingame Associates	510 S Fulton Ave. Mt. Vernon	MO4-7530
Tex	Airep Engineering Co.	Box 9555, Dallas 14	TA4-3900
Utah	F. Y. Gates Co.	200 S Main St. Salt Lake City 1	EL9-1101
Wash	Comptronics	82 Hanford St. Seattle 4	MA4-5135
For	Fraser & Hansen, Ltd.	301 Clay St. San Francisco 11, Cal	
Can	B. H. McGregor	Box 176, Sta. H, Toronto 13, Ont	OX9-5521

SMITH TUBE CORP ..... **75 4 Maple Ave. Ridgewood, NJ** **GI6-6412**

SNYDER MFG. CO., INC. ..... **Box 464, New Philadelphia, Ohio** **7-2118**

Cal	Nuclear Engineering Co. Inc.	65 Ray St. Pleasanton	
NJ	Nuclear Engineering Co. Inc.	400 Delancy St. Newark	

SOC DE CONST. POUR TRES BASSES TEMP. **82 Ave. Ambroise Croizat, St. Martin D'Heres Isere, Fr** **44.60.42**

SOC. DES RESINES FLUOREES **21 rue Jean Goujon, Paris 8, Fr**

SOCIETE FIVES-PENHOET .... 340 rue Saint-Honore, Paris 1, Fr

SOCIETE INDUSTRIELLE DE COMBUSTIBLE NUCLEAIRE
69 rue de Monceau Paris 8, France LA40-50

SOCIETE RATEAU ..... Rue Reteau La Courneuve, Seine, Fr FL18.80

SOLA ELECTRIC CO. ..... Busse Rd. at Lunt, Elk Grove, Ill HE9-2800

Cal	Sola Electric Co.	2907 W Vernon Ave. Los Angeles 8	AX2-0166
Cal	Sola Electric Co.	9 W 37th St. San Mateo	FI1-6538
Cal	R. J. Noel Co. Inc.	4315 S Western Ave. Los Angeles 62	AX2-0191
Colo	Slaybaugh & Thompson	100 W 13th Ave. Denver 4	AC2-5826
Ga	J. Millar Assoc.	1036 Peachtree St. NE, Atlanta 9	TR6-0919
Mass	Sola Electric Co.	272 Centre St. Newton 58	BI4-3354
Minn	The Heimann Co.	1711 Hawthorne Ave. Minneapolis 3	FE2-5457
Mo	McDowell-Redlingshafer Sales Co.	1103 E Armour, Kansas City 9	WE1-5622
NJ	Sola Electric Co.	210 N 6th St. Camden 2	EM5-7144
Ohio	Sola Electric Co.	14325 Detroit Ave. Cleveland 7	LA1-8038
Tex	R. E. Nesbitt Co.	1925 Cedar Springs, Dallas 1	RI7-4145
Wash	Northwestern Agencies, Inc.	4130 1st Ave. S, Seattle 4	MA3-8882

SOLAR AIRCRAFT CO. ..... 2200 Pacific Hwy. San Diego 12, Cal BE3-8241

SOLARTRON ELECTRONIC GROUP LTD.
Victoria Rd. Farnborough, Hants. Eng FA3000

Cal	Solartron Inc.	1743 S Zeyn St. Anaheim	PR2-2652
Fr	Solartron France S. A.	1 Blvd de Sebastopol, Paris	CE9532
Ger	Solartron Elektronik GmbH	Bayerstr 13, Munich 15	MU59.51.09
Holl	Solartron(Nederland) N.V.	Zeekant 35, Scheveningen, The Hague	HA543147
Ind	Solartron Electronic Group Ltd	70 Janpath, New Delhi 1	ND43373
Ital	Solartron Sr. L.	Via Ipp. Nievo 23, Milan	MI412 [illegible]
Swed	A.B. Solartron	Hedingsgatan 9, Stockholm NO.	ST600906

SOLID STATE RADIATIONS, INC. 9925 W Jefferson Blvd. Culver City, Cal UP0-9495

SORENSEN & CO., INC. ..... Richards Ave. South Norwalk, Conn TE8-6571

SOUTHERN CORP. ..... Box 810 Charleston, SC RA-27158

SOUTHERN INSTRUMENTS, LTD. Frimley Rd. Camberley, Surrey, Eng

SOUTHERN LEAD ROLLING CO. Box 6195, Dallas 22, Tex FE1-3241

SOUTHWEST FABRICATING & WELDING CO. INC.
7525 Sherman St. Houston 11, Texas WA8-3451

SOUTHWESTERN ENGINEERING CO. 4800 Santa Fe Ave. Los Angeles 58, Cal LU3-6267

SPARTA MFG. CO. DIV. U.S. CERAMIC TILE CO. Dover, Ohio 4-2380

Cal	R. B. Porter Co.	1804 Chiquita Pl. Glendale 8	CH5-7631
DC	Electronic Specialties Co.	Box 5516, Washington	WH6-1512
Fla	Mesco, Inc.	2617 Jewel Rd. Largo	JU4-1171
Ill	Lutz Sales Co.	6677 Northeast Hwy. Chicago	RO3-7404
Ind	R. G. Bigler	611 S 8th St. Goshen	KE3-6740
Mass	Schutter-Young Co.	5 Ober St. Beverly	WA2-6121
Mo	Nagel & Nax	11001 Manchester Rd. St. Louis	YO6-2747
NJ	Hooper-Bryne Co.	484 Bloomfield Ave. Montclair	PI4-8866
NY	H. W. Harding	160 Hunting Valley Rd. Clarence	RH1-2622
Ohio	P. Teller Associates	1022 Neeb Rd. Cincinnati	WI1-1956
Pa	C. H. Gardner Co.	3701 N Broad St. Philadelphia	BA5-4384
Pa	Industrial Specialties Co.	300 Mr. Lebanon Blvd. Pittsburgh	FI1-4000

SPECIAL INSTRUMENTS LAB. INC. 312 W Vine Ave. Knoxville 02, Tenn ... 5-0216

Cal	E. S. Browning Co.	2321 Yates Ave. Los Angeles 22
Miss	Leo Gerdes	Leland
NY	Transmares Corp.	15 William St. New York
NY	Mundial Export Corp.	70 E 45th St. New York 17
NC	W. M. Hall & Sons	Belmont
Tex	Carl Cassling	Cotton Exchange Bldg. Dallas

SPECIAL SCREW PRODUCTS CO. Bedford, Ohio BE7-6545

SPECTRACOAT, INC. ..... 248 Harbor Blvd. Belmont, Cal LY1-0358

SPECTROL ELECTRONICS CORP. 1704 S Del Mar Ave. San Gabriel, Cal ... AT7-9761

Ariz	Brooks Feeger & Associates	34-A E 1st St. Scottsdale	WH6-2111
Cal	Cerruti & Associates	Box 509, Redwood City	EM9-3354
Cal	D. G. DeHaas Co.	1923 Cable St. San Diego 7	AC4-2401
Colo	Brooks Feeger & Associates	3041 S Broadway, Englewood	SU1-7375
Fla	J. Geartner Co.	235 Lincoln Rd. Miami Beach	JE1-0200
Fla	J. Geartner Co.	711 Magnolia Ave. Orlando	GA4-3926
Mich	ABM Sales Co.	10116 Puritan Ave. Detroit	UN2-1300
NM	Brooks Feeger & Associates	5510 Domingo Rd. NE, Albuquerque	AM8-1724
NY	D. R. Bittan Co.	104 S Central Ave. Valley Stream	LO1-2444
NC	The Candor Co.	2080 Beach St. Winston-Salem	PA2-1432
Tex	Ammon & Champion Co.	2714 Bomar St. Dallas 4	FL7-3939
Utah	Brooks, Feeger & Associates	253 Rio Grande, Salt Lake City	EL9-2427

SPEEDLINE FITTINGS DIV.
HORACE T. POTTS CO. ..... Erie Ave. & D St. Philadelphia 34, Pa CA5-4600

Md	H. T. Potts Co.	7110 Commercial Ave. Baltimore 6	IV8-4200
Pa	H. T. Potts Co.	63 N Duke St. York	YO8-1250

SPEER CARBON CO. ..... Thorese St. St. Marys, Pa TE42-801

Cal	E. A. Wilcox Co.	Los Angeles	RA38-436

SPEER RESISTOR DIV. SPEER CARBON CO. Bradford, Pa

Cal	J. W. Marsh Co.	4216-20 W Jefferson Blvd. Los Angeles 16	RE2-5145
Cal	W. S. Harmon Co.	Box 1380, Beverly Hills	OL2-5616
Conn	R. J. Bahr, Jr.	Spring Valley Rd. Woodbridge	FU7-8712
Fla	Benz Sales Co.	Box 178, N Miami Beach 62	FR6-1391
Ill	W. A. Hurtienne	5875 N Lincoln Ave. Chicago 45	LO1-0156
Mich	Henschen, Jensen & Co.	2842 W Grand Blvd. Detroit 2	TR1-0308
NY	W. M. Hicks	4 Spruce Dr. Roslyn	MA7-6150
NY	R. W. Jackson	4446 Main St. Buffalo 26	CI2094
Ohio	J. F. Kilfoil	9415 Montgomery Rd. Cincinnati 42	SY1-6150
Pa	R. H. Hilderbrand	Fairview Village, Montgomery County	CH7-6225
Tex	J. B. Guenther	4533 N Central Expwy. Dallas 5	JU6386
Wash	F. H. Haight Co.	3212 Eastlake Ave. Seattle 2	EA1818

SPELLMAN HIGH VOLTAGE CO. 3029 Webster Ave. Bronx 67, NY KI7-0306

SPENCER CHEMICAL CO. ..... 500 Dwight Bldg. Kansas City 5, Mo

SPENCER-KENNEDY LABS., INC. 1320 Soldiers Field Rd. Boston 35, Mass .. AL4-5400

Cal	Kittleson Co.	416 N LaBrea Ave. Los Angeles 36	WE3-7371
Colo	Scientific Instrument Co.	1460 Pennsylvania St. Denver 3	AL5-2777
Conn	G. Gregory Associates	Box 243, Cheshire	AT8-2900
Ill	L. F. Green & Assoc.	5218 W Diversey Ave. Chicago 39	PA5-6824
Mass	G. Gregory Associates	7 Erie Dr. Natick	OL5-1330
Minn	Engineering Prods. Assoc.	1821 University Ave. St. Paul 4	MI6-3443
NJ	L. A. Garten & Associates	375 Passaic Ave. Caldwell	CA6-7800
NY	SBM Associates, Inc.	969 Clinton Ave. S, Rochester 20	GR3-6506
NY	SBM Associates, Inc.	232 Roosevelt Dr. Utica	RE2-4410
NY	SBM Associates, Inc.	Nowlan Rd. RD3, Binghamton	
Ore	Hawthorne Electronics	700 SE Hawthorne Blvd. Portland 14	BE4-9375
Pa	L. A. Garten & Associates	730 Washington Ln. Jenkintown	WA7-1200

SPERRY ELECTRONIC TUBE DIV. SPERRY RAND CORP. Gainesville, Fla FR2-8411

Cal	Sperry Electronic Tube Division	2200 E Imperial H, El Segundo	OR8-6226
Ill	Sperry Electronic Tube Division	3555 W Peterson Ave. Chicago	KE9-1776
Mass	Sperry Electronic Tube Division	300 Boylston St. Newton	WO9-[illegible]
NJ	Sperry Electronic Tube Division	6319 Westfield Ave. Pennsauken	NO3-2804
NY	Sperry Electronic Tube Division	130 Clinton St. Brooklyn	MA5-5600

SPERRY GYROSCOPE DIV. SPERRY RAND CORP. Great Neck, NY

Cal	Sperry Gyroscope Div.	715 Folsom St. San Francisco 7	DO2-8711
Cal	Sperry Gyroscope Div.	2200 E Imperial Highway, El Segundo	OR8-6226
La	Sperry Gyroscope Div.	630 Gainennie St. New Orleans 9	JA5-7127
NY	Sperry Gyroscope Div.	130 Clinton St. Brooklyn	MA5-5600
Ohio	Sperry Gyroscope Div.	3907 W 150th St. Cleveland 11	WI1-7741
Wash	Sperry Gyroscope Div.	300 W Harrison St. Seattle 99	AT4-7551

SPERRY MICROWAVE ELECTRONICS CO. Box 1828 Clearwater, Fla

Cal	Sperry Gyroscope Co.	2200 E Imperial, El Segundo	OR8-6226
Cal	J. T. Hill Co.	420 S Pine St. San Gabriel	
Fla	S. S. Lee Associates, Inc.	Box 7896, Orlando	
Mass	Technical Instruments, Inc.	90 Main St. Reading	
NJ	L. A. Garten & Associates	645 Eagle Rock Ave. West Orange	RE1-1800
NY	Sperry Gyroscope	Great Neck	FI7-3600
NY	M. P. Andrews	319 Mott Rd. Fayetteville	
Ohio	Sperry Gyroscope Co.	Talbott Tower, Dayton 2	BA3-8826

SPERRY PHOENIX DIV. SPERRY RAND CORP. 21111 N 19 Ave. Phoenix, Ariz WI3-2311

Cal	W. W. Downs	Box 6572, San Diego 6	AC2-3026
Cal	Sperry Phoenix Co.	2200 E Imperial Hwy. El Segundo	OR8-6226
DC	Sperry Phoenix Co.	1000 16th St. NW, Washington 6	ST3-6966
Ga	F. S. Miles	6515 Williamson Dr. NE, Atlanta 5	BL5-4155
Kan	Sperry Phoenix Co.	1830 Industrial Ave. Wichita 12	AM5-3255
Ohio	Sperry Phoenix Co.	118 W 1st St. Dayton 2	BA3-8836
Wash	Sperry Phoenix Co.	300 W Harrison, Seattle 9	AT4-7551

SPERRY PRODUCTS CO. ..... Shelter Rock Rd. Danbury, Conn. PI8-3581

Cal	Sperry Products Co.	831 N Lake St. Burbank	TH5-7451
Conn	Sperry Products Co.	287 Riverside Ave. Westport	CA7-264
Ga	Sperry Products Co.	2082 Abby Ln. NE, Atlanta	636-5321
Ill	Sperry Products Co.	80 E Jackson Blvd. Chicago 4	HA7-6547
Kan	Sperry Products Co.	1745 S Maize Rd. Wichita 15	PA2-4841
Mich	Sperry Products Co.	7140 E Davison Ave. Detroit 12	TW3-0483
Mo	Sperry Products Co.	818 Olive St. St. Louis	MA1-1355
Pa	Sperry Products Co.	7405 Penn Ave. Pittsburgh 8	FR1-3335
Tex	Sperry Products Co.	1525A N Post Oak Rd. Houston 24	OV6-5501
Va	Sperry Products Co	6002A W Broad St. Richmond	AT8-2238

SPERRY SEMICONDUCTOR DIV. SPERRY RAND CORP.
Wilson Ave. South Norwalk, Conn VO6-0641

Cal	Sperry Semiconductor Div.	2200 E Imperial Hwy. El Segundo	OR8-6226
Cal	Pacific Wholesale Co.	1850 Mission St. San Francisco	UN1-3743
Cal	Radio Products Sales, Inc.	1501 S Hill St. Los Angeles 15	RI9-7471
Ill	Sperry Semiconductor Div.	3555 W Peterson Ave. Chicago 45	KE9-1776
Ill	Avnet Electronics Corp. of Ill.	2728 N Mannheim Rd. Melrose Park	GL5-8160
Mass	Avnet Electronics Corp. of Mass.	45 Winn St. Burlington	BR2-3060
Md	Sperry Semiconductor Div.	1415 Providence Rd. Towson 4	VA3-5243
NJ	Sperry Semiconductor Div.	39 Summit Ave. Westwood	NO4-1950
NY	Sperry Semiconductor Div.	63 King Walk, Massapequa Park	LI1-4266
NY	Avnet Electronics Corp.	70 State St. Westbury	ED3-5800
Ohio	Avnet Electronics Corp of Ohio	4180 Kettering Blvd. Dayton 39	AX8-1458

SPINCRAFT, INC. ..... 4122 W State St. Milwaukee 8, Wis

SPINNER ELEKTRO-PHYS. GERATE GmbH., GEORG — Erzgiesserstr 33, Munich 2, W Ger 557639

SPRAGUE ELECTRIC CO. ..... Marshall St. North Adams, Mass MO3-5311

Cal	W. J. Purdy of California	312 7th St. San Francisco 3	UN3-3300
Cal	Sprague Electric Co.	12870 Panama St. Los Angeles 66	EX8-2791
DC	Sprague Electric Co.	724 9th St. NW, Washington 1	ME5-3791
Ill	Sprague Electric Co.	5942 W Montrose Ave. Chicago 34	MU5-6400
Mass	Sprague Electric Co.	313 Washington St. Newton 58	DE2-2900
Mo	Sprague Electric Co.	3910 Lindell Blvd. St. Louis 8	JE5-7239
NJ	Sprague Electric Co.	545 Cooper St. Camden	WO6-1776
NM	R. G. Bowen Co. Inc.	2228A San Mateo Blvd. NE, Albuquerque	AM5-1579
NY	Sprague Electric Co.	50 E 41st St. New York 17	OR9-1195
Ohio	Sprague Electric Co.	224 Leo St. Dayton	BA3-9187
Tex	Sprague Electric Co.	3603 Lemmon Ave. Dallas 19	LA1-9971

SQUIRES CO., C. E. ..... 18502 Syracuse Ave. Cleveland 10, Ohio .. KE1-1064

Ariz	Central Station Equip. Co.	2323 Aviation Hwy. Tucson	MA3-2493
Colo	Ambler Co.	401 W Bayaud, Denver	RA2-7821
Ill	D. H. Skeen & Co.	1 N LaSalle St. Chicago 2	ST2-1415
Mass	The Evans Supply Co.	222 Summer St. Boston	LI2-1625
Mich	Garrett Burgess Inc.	4660 Oakman Blvd. Detroit	TE4-5770
Mo	Smith Steam Specialty Co. Inc.	2922 Oak St. Kansas City	WE1-5000
NY	D. R. Whipple	6 Morris Ave. Schenectady	DE6-5323
NY	A. M. Seymour Associates	Box 3993, Rochester	LO2-9843
NY	H. E. Rieckelman Co.	416 Jackson Bldg. Buffalo	MA6662
NY	J. F. Kern & Co., Inc.	421 7th Ave. New York 1	LO5-0827
Pa	T. C. McCarthy & Co.	Box 296, Upper Darby	SH7-5441
Pa	Banks Morton Co.	106 S Main St. Pittsburgh 15	ST1-0623

STACKPOLE CARBON CO. .... St. Marys, Pa TE41-521

Cal	S. L. Spraggins	16042 Ventura Blvd. Encino	ST8861
Conn	K. E. Dornish	105 Farmington Ave. Plainville	SH7-0633
Ill	C. O. Benson	1107 Harvard Terrace, Evanston	GR5-5187
Mich	J. E. Vollmer, Jr.	6810 Plainfield, Dearborn	CR8-3445
Minn	H. M. Richardson	9 E 22nd St. Minneapolis	FE6-4078
Mo	M. N. Herbst	1406 Ronald Dr. Webster Grove	WO1-9949
NJ	I. H. Lewis	128 Woodland Ave. Westfield	21065
NY	H. S. Wegener	1 McKee Rd. Rochester	BR1-0878
Ohio	E. V. Ansley	2625 Hathaway Rd. Dayton 19	AX9-1360
Ohio	J. F. Clark	3828 Tall Oaks, Toledo	EV2-1813
Pa	J. P. Clancy	1008 Drexel Ave. Drexel Hill	SU9-6556
Pa	C. A. Hammer	684 Maurus St. St. Marys	TE4-1437

STAINLESS FOUNDRY & ENGINEERING INC. — 5132 N 35th St. Milwaukee 9, Wis

STANAT MFG. CO., INC. ..... 511 Shames Dr. Westbury, NY ED4-8700

Cal	Meyer Sheet Metal Machy Co.	1928-30 Santa Fe Ave. Los Angeles	VA1477
Cal	Doot Machinery Co.	1876 Industrial Way, Redwood City	EM9-6241
Conn	L. Clare & Co.	Box 1416, Hartford	AD3-2340
Ill	B. J. Small & Associates	1741 W 91st St. Chicago 20	PR9-6320
Ind	T. A. Bell	834 E 6th St. Indianapolis 20	GL4364
Mass	L. Clare & Co.	Box 1416, Hartford, Conn	AD3-2340
Ohio	H. S. Rondeau	2865 Coventry Rd. Shaker Heights	LO1-7168
Pa	H. S. Rondeau	2865 Coventry Rd. Shaker Heights, Ohio	LO1-7168
R I	L. Clare & Co.	Box 1416, Hartford, Conn	AD3-2340
Wis	Pagel Machinery Co.	3430 N 57th St. Milwaukee 16	UP3-8770

STANDARD PRESSED STEEL CO. Box 1033, Jenkintown, Pa

STANDARD SAFETY EQPT. CO. 431 N Quentin Rd. Palatine, Ill FL9-1400

Cal	Dickson Safety Products Co.	12921 W Washington Blvd. Los Angeles 66	UP6-5962
NJ	Standard Safety Equipment Co.	604 Broadway, Newark 4	HU2-8566
Ohio	Standard Safety Equipment Co.	855 E 152nd St. Cleveland 10	UL1-1700

STANDARD SCIENTIFIC SUPPLY CORP. ..... 808 Broadway, New York 3, NY SP7-0660

DC	E. Moore	6101 16th St. NW, Washington 11	TA9-3152
Mass	E. Marshall	3 Alpine Rd. Norwood	NO7-5537
NY	K.T. Dempster	43 Willow St. Guilderland	HE6317

STANDARD TELEPHONES & CABLES LTD. 63 Aldwych, London WC2, Eng

NY	Intelex Systems Inc.	67 Broad St. New York 4	

STANDARD TUBE CO. ..... 24400 Plymouth Rd. Detroit 39, Mich KE1-9300

Cal	Lawrence-Rutt Co., Inc.	714 W Olympic Blvd. Los Angeles 15	
Ill	Lapham-Hickey Steel Corp.	3333 W 47th Pl. Chicago 32	
Mo	R. C. Wohltman	4115 Manchester Ave. St. Louis 10	
NJ	S. A. McCaulley	226 Canterbury Rd. Westfield	
NY	Standard Tube Sales Corp.	76-01 Woodhaven Blvd. Brooklyn 27	
NC	D. Harkness Co., Inc.	Box 4254, Charlotte 4	
Ohio	Industrial Products Sales, Inc.	227 W Exchange St. Akron 2	
Pa	C. B. Thaw Co.	29 Bala Ave. Bala-Cynwyd	
Tenn	R. A. Wade	1119 Hamilton Bank Bldg. Chattanooga	
Tex	Aztec Metal Sales Co., Inc.	154 Meadows Bldg. Dallas 6	

STANLEY ENGINEERING CO. Hershey Bldg. Muscatine, Iowa AM3-9494

Ill	Stanley Engineering Co.	208 S La Salle St. Chicago 4	AN3-0438
Ohio	Stanley Engineering Co.	966 Hanna Bldg. Cleveland 15	CH1-5477

STANRAY CORP. ..... 200 S Michigan Ave. Chicago 4, Ill WA2-8480

STAPLEX CO. AIR SAMPLER DIV. 783 5th Ave. Brooklyn 32, NY SO8-2335

STAR PORCELAIN CO. ..... 21 Hoirhead Ave. Trenton, NJ

STATE TESTING LAB. INC. ... 227 Knowlton St. Bridgeport 8, Conn ED4-4579

Conn	New Haven Testing Lab. Inc.	280 Starr St. New Haven	ST7-4189

STATHAM INSTRUMENTS, INC. 12401 W Olympic Blvd. LA 64, Cal BR2-0371

Cal	Statham Instruments, Inc.	315 Town & Country Vlg, Palo Alto	DA6-9260
Fla	Statham Instruments, Inc.	122 E Colonial Dr. Orlando	CH1-1574
Md	A. J. Walcek	5005 Hampden La, Bethesda 14	OL 5-1188
Mass	F. J. Deinzer	Box 175, Saxonville	TR5-5600
NJ	Statham Instruments, Inc.	20 Stern Ave. Springfield	DR6-2551
NM	Statham Instruments, Inc.	3205 Central Ave. NE, Albuquerque	AM8-2019
Ohio	Statham Instruments, Inc.	23203 Lorain Rd, North Olmsted	RE4-2551
Tex	F. Hayward	Box 4751, Dallas 6	FL2-8298
For	Machine & Products Co.	52 Wall St. New York 5	

STE ELECTRO-METALLURGIQUE DU PLANET 9 Rue Chouchat, Paris 9, Fr TA53-12

NY	Intel	122 E 42nd St. New York 17	OX7-1331
Fr	Minerais Et Metaux	61, Ave. Hoche, Paris 8	MA14-20

STEARNS-ROGER MFG. CO. ... Box 5888, Denver 17, Colo AC2-8484

Tex	Stearns-Roger Mfg. Co.	1115 City Natl. Bank Bldg. Houston	CA4-6501
Utah	Stearns-Roger Mfg. Co.	40 Richards St. Salt Lake City	DA2-5891
Can	Stearns-Roger Eng. Co., Ltd.	7127 Fairmount Dr. Calgary, Alb.	AL5-0111

STEEL & ALLOY TANK CO. .. Ft. Bessemer St. Newark 5, NJ BI2-5000

STEEL IMPROVEMENT & FORGE CO. 970 E 64 St. Cleveland 3, Ohio UT1-8600

Cal	R. A. B. Williams Steel Co.	7046 Hollywood Blvd. Los Angeles 28	HO9-1461
Cal	R. A. B. Williams Steel Co.	1400 S St. Sacramento	HI6-7829
Colo	D. W. Jones	1321 Bannock St. Denver 4	KE4-4911
Fla	Southern Dynamics, Inc.	1500 W Church St. Orlando	GA5-2850
NY	C. G. Singleton	49 Meadow Rd. Rutherford, NJ	WE3-2565
Pa	Gabel Industries, Inc.	Box 537, Norristown	BR5-5655
Wis	A. E. Rasmussen	1348 N 37th St. Milwaukee 8	DI2-2066

STEELS ENGRG INSTALLATIONS LTD. Sunderland, Durham, Eng SU56281

Eng	Steels Engrg. Install. Ltd.	143 Sloane St. London SW1	BL6178

STEINMULLER GmbH ..... Gummersbach, Rheinland, Germany

STERLING MFG. CO. ..... 2880 Detroit Ave. Cleveland 13, Ohio

STERLING TRANSFORMER CORP. 510 Driggs Ave. Brooklyn 11, NY

Cal	B. L. Cahn Co.	420 Market St. San Francisco 11	SU1-7981
Cal	Tim-Co Sales	6845 Louise Ave. Van Nuys	ST1-0640
Colo	Howell Sales, Inc.	4637 Dudley, Arvada	EA3209
Conn	Walworth Controls	131 Main St. Rocky Hill	JA9-6896
Fla	Winfield Electronics	666 NE 125th St. N Miami	PL1-5566
Md	Naudain & Bohaker	Suburban Sta. Bldg. Philadelphia, Pa	LO4-3194
Mo	LeeMark Associates	2001 Big Bend Blvd. St. Louis	MI7-1470
NY	Franklin & Andrews Sales Corp.	2 Standish Terrace, Syracuse 3	GI6-1120
NY	Willgold Electronics	Box 27, Rockville Centre	RO4-4022
Pa	Naudain & Bohaker	Suburban Sta. Bldg. Philadelphia	LO4-3194
Tex	F. Gross & Co.	Box 1926, Dallas	FL1-1837
Wis	C. S. Polacheck Assoc.	1500 E Fairy Chasm Rd. Milwaukee	FL2-8650

STEVENS-ARNOLD, INC. ..... 7 Elkins St. S Boston 27, Mass AN8-1170

STEVENS MFG. CO., INC. ..... P.O. Annex 1007, Mansfield, Ohio TU4-1311

Cal	P. H. Potter Associates	2390 Foothill Blvd. Pasadena	MU1-5189
Colo	Inland Associates	1480 Hoyt St. Lakewood	BE7-6881
Ill	E. N. Taylor	6760 Stony Island Ave. Chicago 49	FA4853-2
Kan	D. D. Darnell & Co.	Johnson Dr. & Nall Ave. Mission	RA2-1736
Md	N. F. Price	4222 Ivy Glen Rd. Silver Spring	WH6-4488
Mass	The Representatives Corp.	10 High St. Boston 10	HA6-0641
NJ	L. C. Sanford	202 Woodland Ave. Rutherford	WE9-0919
NY	H. C. Johnson Agencies, Inc.	111 Mt. Hope Ave. Rochester 20	HA6-1090
Pa	Rothenheber & Co. Inc.	53 Cricket Ave. Ardmore	MI2-6911
Tenn	J. L. Cottrell	Box 1334, Nashville 2	CY2-8997
Wash	H. D. Campbell Co.	220 9th Ave. N, Seattle 9	MA4-3252
Can	R. W. Stark	Box 186, Renfrew, Ont.	HE2-4358

STEWARD MFG. CO., D. M. .... E 36 St. Chattanooga 1, Tenn. TA1-1561

Cal	Electrical Specialty Co.	2820 E 12th St. Los Angeles	AN9-9511
Ill	Knoblock & Malone, Inc.	1603 N Newland Ave. Chicago 35	NA2-4906
Mass	R. Gale	Box 6, Reading	RE2-1829
Mich	D. Clifford	623 Fisher Bldg. Detroit 2	TR5-3544
Minn	A. A. Gustafson	Griggs-Midway Bldg. St. Paul 4	MI4-7630
Mo	A. O. Woerner & Sons	4030 Chouteau Ave. St. Louis	FR1-2780
NJ	W. S. Mills	25 Samson Ave. Madison	FR7-7747
NJ	H. S. Bancroft & Co.	209 Cooper St. Collingswood 7	UL4-8090
NY	Reed-Tollefson Corp.	2815 Monroe Ave. Rochester 18	HI5-9450
NC	Manufacturers Sales Co.	509 Cornwallis Dr. Greensboro	BR4-1481
Ohio	Petrie-Ingram Co.	5767 Mayfield Rd. Cleveland	HI2-5830
Can	Glendon Co. Ltd.	603 Evans Ave. Toronto, Ont.	RO6-8121

STEWART CORP. F. W. ..... 4311 N Ravenswood Ave. Chicago 13, Ill GR2-4600

Cal	F. W. Stewart Corp.	2404 S Grand Ave. Los Angeles 7	RI7-0139

STEWART ENGINEERING CO. ... 467 Bean Creek Rd. Santa Cruz, Cal GA6-4100

STICHT CO., INC., HERMAN H. 27 Park Pl. New York 7, NY RE2-8163

Cal	The T. R. Routh Co.	Box 1066, Burlingame	
Ill	Murphy & Dickey	537 S Dearborn, Chicago	

Mass	D. A. Healey	610 Atlantic Ave. Boston	
Mich	E. B. Anderson	12810 Puritan Ave. Detroit	
Mo	C. O. Leaver Co.	4030 Chouteau Ave. St. Louis	
Ohio	Martin-Retiger, Inc.	11955 Shaker Blvd. Cleveland	
Ohio	Beedle Equipment Co.	Roselawn Center Bldg. Cincinnati	
Ore	J. L. Kearns Co.	6055 NE Glisan St. Portland	
Pa	R. F. Clark Co.	1404 Clark Bldg. Pittsburgh	
Pa	Penn-Del Instrument Sales Co.	Box 4361, Philadelphia	
Wis	M. F. Jacobs Co.	2218 N 3rd St. Milwaukee	

STILLMAN RUBBER CO. ..... **5811 Merilyn Ave. Culver City, Cal.**

STOELTING CO., C. H. ..... **424 N Homan Ave. Chicago 24, Ill** **SA2-3833**

Sales Representatives in all principal cities and countries.

STOKES CORP., F.J. ..... **5500 Tabor Rd. Philadelphia 20, Pa** **CU4-0100**

Cal	F. J. Stokes Corp.	15 N Euclid Ave. Pasadena	MU1-8619
Conn	F. J. Stokes Corp.	77 Bedford St. Stamford	DA3-2335
Ga	J. D. Robertson, Inc.	3133 Maple Dr. NE, Atlanta 5	CE7-1506
Ill	F. J. Stokes Corp.	5875 N Lincoln Ave. Chicago 45	UP8-4450
NJ	F. J. Stokes Corp.	2165 Morris Ave. Union	MU8-2636
NY	F. J. Stokes Corp.	1795 Monroe Ave. Rochester 18	GR3-1940
Ohio	F. J. Stokes Corp.	2036 E 22nd St. Cleveland 15	SU1-7120
Ohio	F. J. Stokes Corp.	3070 Far Hills Ave. Dayton 9	AX3-8302
Tex	The Hainge Co. Inc.	3323 Mercer St. Houston 27	JA9-2573
Can	F. J. Stokes Co. of Canada, Ltd.	4198 Dundas St. Toronto 18, Ontario	BE2-2301

STONE & WEBSTER ENGINEERING CORP. **49 Federal St. Boston 7, Mass** **HA6-2500**

Cal	Stone & Webster Eng. Corp.	235 Montgomery St. San Francisco 4	SU1-4504
Cal	Stone & Webster Eng. Corp.	609 S Grand Ave. Los Angeles 17	MA6-0221
Ill	Stone & Webster Eng. Corp.	33 S Clark St. Chicago 3	RA6-2706
NY	Stone & Webster Eng. Corp.	90 Broad St. New York 4	BO9-4224
Tex	Stone & Webster Eng. Corp.	850 Esperson Bldg. Houston 2	CA4-9124
Wash	Stone & Webster Eng. Corp.	707 Lloyd Bldg. Seattle 1	MA3-2780

STONHARD CO., INC. ..... **401 N Broad St. Philadelphia, Pa** **WA2-7400**

Cal	Stonhard Co., Inc.	1267 N Vermont Ave. Los Angeles	NO5-6168
Ga	Stonhard Co., Inc.	1734 Candler Bldg. Atlanta	JA4-1936
Ill	Stonhard Co., Inc.	28 E Jackson Blvd. Chicago	WA2-5499
La	Stonhard Co., Inc.	1319 Tchoupitoulas St. New Orleans	JA5-4161
Md	Stonhard Co., Inc.	2301 N Charles St. Baltimore	BE5-4161
Mass	Stonhard Co., Inc.	115 High St. Boston	CE6-8400
Mich	Stonhard Co., Inc.	W Fort & 10th Sts. Detroit	WO2-3540
Minn	Stonhard Co., Inc.	463 Fairview Ave. St. Paul	MI4-0122
NY	Stonhard Co., Inc.	489-5th Ave. New York City	OX7-1975
Ohio	Stonhard Co., Inc.	307 E 4th St. Cincinnati	MA1-9444
Ohio	Stonhard Co., Inc.	1138 Schofield Bldg. Cleveland	SU1-4144
Tex	Stonhard Co., Inc.	3301 Montrose Blvd. Houston	JA3-1550

STONITE COIL CO. ..... **Rt. 25, Yardville, NJ** **JU7-7323**

STORCHHEIM RESEARCH & DEVEL. CORP. **34-32 57th St. Woodside, NY** .. **IL8-3443**

STOW MFG. CO. ..... **355 Sheer St. Binghamton, NY** **RA3-5411**

Cal	W. T. Humes	230 E Anaheim, Wilmington	
NY	C. H. Karlen	519 S 5th St. Mt. Vernon	

STREETER-AMET CO. ..... **Grayslake, Ill** **BA3-4801**

STROMBERG-CARLSON DIV. GEN. DYNAMICS CORP.
100 Carlson Rd. Rochester, NY **HU2-2200**

Cal	Stromberg-Carlson	2231 S Barrington Ave. LA	GR8-0521
Colo	Stromberg-Carlson	421 N Tejon St. Colorado Springs	ME4-1597
DC	Stromberg-Carlson	1710 H St. NW, Washington 6	RE7-5151
Fla	Stromberg-Carlson	132 E Colonial Dr. Orlando	CH1-5426
Mass	Stromberg-Carlson	23 Monhegan Rd. West Acton	CO3-7417
NJ	Stromberg-Carlson	25 Reckless Pl. Red Bank	SH1-7064
NY	Stromberg-Carlson	1333 E Domonick St. Rome	SS6-7400
Ohio	Stromberg-Carlson	349 W 1st St. Dayton 2	BA2-9461

STROMBERG CARLSON DIV. GEN. DYNAMICS CORP.
1895 Hancock St. San Diego 12, Cal **BR6-3911**

DC	Stromberg-Carlson	1710 H St. NW, Washington 6	RE7-5151

STRUTHERS WELLS CORP. ..... **Warren Pa** **RA3-4300**

Cal	Engineered Process Equip. Co.	600 16th St. Oakland 12	TE2-5391
Cal	Engineered Process Equip. Co.	774 E Green St. Pasadena	RY1-6663
Ga	W. C. Davis & Associates	1371 Peachtree St. NE, Atlanta 9	TR5-9659
Ill	Struthers Wells Corp.	6 N Michigan Ave. Chicago 2	FI6-4655
Mich	Kerr Machinery Co.	E Fort & Beaubien, Detroit 26	WO1-0590
Mo	Process Eng. & Equip. Co.	32 Hanley Ind. Ct. St. Louis 17	MI7-6197
NY	Struthers Wells Corp.	6 N Michigan Ave. Buffalo 2	MA4492
NY	Struthers Wells Corp.	111 W 50th St. New York 20	PL7-7272
Ohio	P. M. Kline & Associates	2036 E 22nd St. Cleveland 15	CH1-1171
Pa	Struthers Wells Corp.	29 Bala Ave. Bala-Cynwyd	MO4-8146
Pa	Goldsborough & Vansant, Inc.	2715 Library Rd. Pittsburgh 34	TU4-6212
Tex	The Tennant Co.	675 Gulf Bldg. Houston 2	CA8-8454

STURTEVANT MILL CO. ..... **103 Clayton St. Boston 22, Mass**

SUFLEX, LTD ..... **54-58 Uxbridge Rd. London W5, Eng** **EA7733**

SULZER BROS. ..... **Winterthur, Swit** ..... **(052) 8 11 22**

NY	Sulzer Bros. Ltd.	50 Church St. New York 7	DI9-1527

SUMMER SOLLITT CO. ..... **307 N Michigan Ave. Chicago 1, Ill** **ST2-4460**

SUN SHIPBUILDING & DRY DOCK CO. **Foot of Morton Ave. Chester, Pa**

SUNDSTRAND CORP. ..... **2531 11th St. Rockford, Ill** **WO2-4477**

SUPERIOR AIR PRODUCTS CO. **132 Malvern St. Newark 5, NJ** **MA3-5715**

SUPERIOR ELECTRIC CO., THE **83 Laurel St. Bristol, Conn** **LU2-9561**

Cal	The Superior Electric Co.	2881 El Camino Real, Redwood City	EM8-7094
Cal	The Superior Electric Co.	14663 Titus St. Van Nuys	ST8-3626
Fla	The Superior Electric Co.	DuPont Plaza, Miami 32	FR4-4103
Ill	Superior Electric Co.	721 South Blvd. Oak Park	EU3-5430
Mass	The Superior Electric Co.	6 Abbott Rd. Wellesley Hills	CE7-0750
Mich	The Superior Electric Co.	13530 Michigan Ave. Dearborn	LU3-5225
NY	The Superior Electric Co.	250 Park Ave. New York 17	YU6-7930
Ohio	The Superior Electric Co.	101 Public Square, Medina	PA3-1515
Pa	The Superior Electric Co.	Ft. Wash. Ind. Pk. Fort Washington	CH8-4728
Tex	The Superior Electric Co.	174 Meadows Bldg. Dallas 6	EM8-4688
Wash	The Superior Electric Co.	810 3rd Ave. Seattle 4	MU2-1323
Can	American Superior Elec. Co.	174 Evans Ave. Toronto 18, Ont	RO2-7309

SUPERIOR STEEL DIV., COPPERWELD STEEL CO. **Carnegie, Pa** **WA1-4120**

Cal	Superior Steel Division	5225 Wilshire Blvd. Los Angeles 36	WE3-1440
Ill	Superior Steel Division	320 1st Natl. Bank Bldg. Evanston	UN4-1724
Mich	Superior Steel Division	626 Fisher Bldg. Detroit 2	TR5-5070
NY	Superior Steel Division	6408 Chrysler Bldg. New York	YU6-7740
NY	Superior Steel Division	1212 Rand Bldg. Buffalo 3	MO6483
Ohio	Superior Steel Division	1118 Talbott Tower, Dayton 2	BA3-9122
Pa	Superior Steel Division	2345 Willow Brook Dr. Huntingdon Valley	OL9-5000

SUPERIOR TUBE CO. ..... **Box 191, Norristown, Pa** **BR5-2070**

SURETY RUBBER CO. ..... **N High St. Carrollton, Ohio** **CA199**

Ga	L. E. Gibbs Co.	165 Worth Dr. NW, Atlanta 5	BL5-6538
Cal	The Macintosh Co.	3030 Bridgeway Blvd. Sausalito	EX2-1412
NJ	C. E. Roser	Scott Rd. Brielle	CA3-0568
Tex	D. Dennis	613 Downing Dr. Richardson	

SURFACE COMBUSTION DIV.,
MIDLAND-ROSS CORP. ..... **2375 Dorr St. Toledo 1, Ohio** **JE6-4611**

Ala	F. J. Evans Engineering Co.	800 S 27th St. Birmingham	FA2-7731
Cal	Natural Gas Equipment, Inc.	804 S Fair Oaks Ave. Pasadena 2	MU1-9621
Conn	W. W. Young & Assoc., Inc.	16 Echo Lake Rd. Watertown	CR4-8841
Ill	Surface Combustion Division	116 S Prospect Ave. Chicago	TA3-5118
Ind	Surface Combustion Division	5420 College Ave. Indianapolis 20	CL1-7711
Mass	Surface Combustion Division	1230 Hancock St. Quincy 69	PR3-9800
Mich	Surface Combustion Division	14425 W 8 Mile Rd. Detroit 35	UN4-6575
NJ	W. F. Wright	26 Mt. Vernon Ave. Irvington	ES3-8155
NY	Surface Combustion Division	317 State Tower Bldg. Syracuse	HA2-5056
Ohio	Surface Combustion Division	212 Hgts-Rockefeller Bldg. Cleveland	FA1-5844
Pa	Surface Combustion Division	Suburban Sq. Bldg. Ardmore	MI2-5390
Pa	Surface Combustion Division	4154 Library Rd. Pittsburgh 34	LO1-6112

SWARTWOUT DIV. CRANE CO. **Hooksett Ind. Park, Manchester, NH** **HA5-7685**

Ill	Swartwout Div. Crane Co.	901 W Hillgrove Ave. LaGrange	FL4-6855
NY	Swartwout Div. Crane Co.	233 Broadway, New York 7	WO4-3280
Ohio	Swartwout Div. Crane Co.	1740 E 12th St. Cleveland 14	CH1-4108
Okla	Swartwout Div. Crane Co.	Atlas Life Bldg. Tulsa	LU5-1932
Pa	Swartwout Div. Crane Co.	354 Lancaster Ave. Haverford	MI9-1177
Tex	Swartwout Div. Crane Co.	812 Dowling St. Houston 2	CA4-6973
Can	Swartwout Co. of Canada, Ltd.	7 Pleasant Blvd. Toronto 7, Ont	OL8-5171

SWEPCO TUBE CORP. ..... **1 Clifton Blvd. Clifton, NJ** **PR8-3500**

Cal	Tubesales	2211 Tubeway, Los Angeles 22	RA3-7731
Ga	J. M. Tull Metal & Supply Co.	285 Marietta St. NW, Atlanta	AL3871
Ill	C. A. Roberts Co.	2401 - 25th Ave. Franklin Park	GL5-6420
Mass	Brown-Wales Co.	165 Rindge Ave. Ext. Cambridge 40	UN4-4300
Mich	Service Steel Div.	13700 Sherwood Ave. Detroit	TW3-0350
NJ	A. B. Murray Co. Inc.	Box 476, Elizabeth	EL4-1200
NJ	Schnitzer Alloy Products Co.	325 Pine St. Elizabeth	ELJ-1300
NY	F. von Raab	Box 350, Port Washington	PO7-1220
NY	Whitehead Metals, Inc.	303 W 10th St. New York 14	WA4-1500
Ohio	Cleveland Tool & Supply Co.	1427-37 W 6th St. Cleveland	CH1-8485
Ore	Electric Steel Foundry Co.	2141 NW 25th Ave. Portland 10	CA8-2141
Pa	H. T. Potts Co.	Erie Ave. & "D" St. Philadelphia	GA6-4600
Tex	R. J. Gallagher Co.	1502 Gasin St. Houston	WA8-3421
Tex	Standard Brass & Mfg. Co.	K.C.S. Track & 4th St. Port Arthur	YU5-9377
W Va	McJunkin Corp.	1352 Hansford St. Charleston	DI4-1751
Can	Alloy Metal Sales, Ltd.	215 Lakeshore Blvd. E. Toronto, Ont	EM2-4411
Can	Firth Brown Steels Ltd.	840 Cote de Liesse Rd. Montreal	HI4-2891

SYLVANIA-CORNING NUCLEAR CORP
208-20 Willets Point Blvd. Bayside, NY ... **FA1-1212**

SYLVANIA ELEC. PROD. INC. SEMICONDUCTOR DIV. 100 Sylvan Rd.
Woburn, Mass. **WO2-3500**

Cal	Sylvania Elec. Products, Inc.	1811 Adrian Rd. Burlingame	OX7-3500
Ga	Sylvania Elec. Products, Inc.	2115 Sylvan Rd. SW, Atlanta	PO6-3633
Ill	S.E.P.I.	2001 N Connell, Melrose Park	EB9-2525
NJ	Sylvania Elec. Products, Inc.	1000 Huyler St. Teterboro	AT8-9484

SYLVANIA ELECTRONIC TUBES, DIV. SYLVANIA ELEC. PRODS. INC.
Emporium, Pa **EM301**

Cal	Sylvania Elec. Products, Inc.	1811 Adrian Rd. Burlingame	OX7-3500

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Ga	Sylvania Elec. Products, Inc.	2115 Sylva Rd. Atlanta	PO6-3633
Ill	Sylvania Elec. Products, Inc.	2001 N Cornell Ave. Melrose Park	ES9-2525
La	Sylvania Elec. Products, Inc.	8140 Forshey St. New Orleans	AN7757
Mo	Sylvania Elec. Products, Inc.	5010 Kemper Ave. St. Louis 9	MO4-8974
NJ	Sylvania Elec. Products, Inc.	1000 Huyler St. Teterboro	AT8-0484
NY	Sylvania Elec. Products, Inc.	1740 Broadway, New York 19	JU6-2424
Tex	Sylvania Elec. Products, Inc.	100 Fordyce St. Dallas 2	RI1-4834
Wash	Sylvania Elec. Products, Inc.	3466 E Marginal Way, Seattle 4	MA2-6885
	SYLVANIA HOME ELECTRONICS DIV. SYLVANIA ELEC. PRODS. INC. 700 Ellicott, Batavia, NY		**BA3470**
	SYNCOR PRODUCTS CO.	**30 Eastern Ave. Malden 48, Mass**	
	SYNTHANE CORP.	**River Rd. Oaks, Pa**	**GL2-2211**
Cal	Synthane Corp.	518 W Garfield Ave. Glendale 4	CH5-1093
Ill	Synthane Corp.	8711 Narragansett Ave. Morton Grove	OR3-5390
Ind	Synthane Corp.	4508 Allisonville Rd. Indianapolis 5	LI6-3650
Kan	Synthane Corp.	Box 131, Mission	HE2-3355
Mass	Synthane Corp.	404 Main St. Wakefield	CR9-3594
Mich	Synthane Corp.	Box 145, Orchard Lake	MI6-8868
NY	Synthane Corp.	20 Studio Arcade, Bronxville 8	DE7-2012
NY	Synthane Corp.	137 W Commercial St. East Rochester	LU6-0413
Ohio	Synthane Corp.	3597 Lee Rd. Cleveland 20	WA1-0020
Tenn	Synthane Corp.	Box 10187, Knoxville 19	KN8-2659
Tex	Synthane Corp.	Box 846, Richardson	AD5-1491
Wis	Synthane Corp.	316 E Silver Spring Dr. Milwaukee 11	WO2-0890
	SYNTRON CO.	**355 Lexington Ave. Homer City, Pa**	
Cal	The C. E. Holmes Co.	107 N Ave. 64, Los Angeles 42	CL6-2255
Colo	Krippner & Polley	1166 Elati St. Denver 4	CH4-4639
Ill	Syntron Chicago Sales Co.	236 N Pulaski Rd. Chicago 24	NE2-3676
Ind	R. O. Whitesell & Assoc.	6620 E Washington St. Indianapolis	FL9-5374
Mass	P. J. Engineering Sales Co.	Box 212, Watertown	WA4-5950
NJ	Syntron Semiconductor Div.	44 N Dean St. Englewood	LO9-9080
NY	E. A. Ossmann Corp.	830 Linden Ave. Rochester 25	LU6-4940
Pa	Danco Corp.	Fairview Village	BR5-2600
	SYSTRON-DONNER CORP.	**950 Galindo St. Concord, Cal**	**MU2-3650**
Cal	Instruments for Measurements	3455 Cahuenga Blvd. Hollywood	HO9-7294
Cal	Aulk Associates	120 Santa Margarita, Menlo Park	DA6-1760
Colo	Barnhill Associates	1170 S Sheridan Blvd. Denver	WE5-4545
Ga	E. G. Holmes & Associates	4969 Roswell Rd. NE, Atlanta 5	BL5-8060
Ill	Lang & Claeson Co.	6733 N Olmsted Ave. Chicago 31	SP4-3610
Minn	Engineering Products Associates	1821 University Ave. St. Paul 4	MI6-3443
Mo	N. W. Kathrinus & Co.	4356 Duncan Ave. St. Louis	OL2-7005
NY	Burlingame Associates	510 S Fulton Ave. Mt. Vernon	MO4-7530
Ohio	Tiby Co.	2245 Warrensville Center Rd. Cleve 18	ER1-5335
Tex	A. Barnes Co.	3603 Lemmon Ave. Dallas	LA6-8735
Wash	H. Levinson Co.	1117 2nd Ave. Seattle	MA2-5433
Can	Electrodesign	9124 St. Lawrence Blvd. Montreal, Que.	DU9-5914
	TRG, INC.	**2 Aerial Way, Syosset, NY**	**OV1-6900**
Mass	TRG, Inc.	9 Union Sq. Somerville 43	MO6-8660
NY	TRG Refractories Division	320 Yonkers Ave. Yonkers	YO8-2211
	TALBOT STEAD TUBE CO. LTD.	**Green La. Walsall, Staffs, Eng**	
NJ	Brackett Steel Inc.	Cliffside Park	HE5-5300
	TANSITOR ELECTRONICS, INC.	**West Rd. Bennington, Vt**	**5473**
Ariz	J. Estelle	318 W State Ave. Phoenix	CR7-0506
Cal	Ash Wood Co.	Box 1158, Arcadia	CU3-1201
Cal	Long & Associates, Inc.	506 Middlefield Rd. Redwood City	EM9-3324
Fla	G. Bohman	711 Magnolia Ave. Orlando	GA5-6860
Md	A. Holden	1133 Gipsy Ln. W. Towson	VA3-3763
Mass	A. Hubert	420 Beacon St. Boston 15	CO2-0027
NJ	H. J. White Co., Inc.	121 Covered Bridge Rd. Haddonfield	HA8-2304
NY	S. F. Foster Co.	204 Southfield Dr. Fayetteville	NE7-6137
NY	Tansitor Electronics, Inc.	102 Valentine St. Mt. Vernon	4-4342
Ohio	A. Natalino	Box 644, Stow	OV8-3930
	TARGET ROCK CORP.	**108 Madison Ave. Hempstead, NY**	**IV3-6565**
	TAYLOR ENGINEERING CORP.	**6500 Epworth Blvd. Detroit 10, Mich**	**TY8-6232**
Cal	Allmetal Fabricators, Inc.	681 Market St. San Francisco 5	YU6-4915
NY	Allmetal Fabricator, Inc.	29 E 69th St. New York 21	RE7-6575
	TAYLOR FIBRE CO.	**Norristown 40, Pa**	**GL2-2811**
Cal	Taylor Fibre Co.	1400 Palomares Ave. La Verne	MA8-9131
Conn	Taylor Fibre Co.	967 Farmington Ave. West Hartford	AD6-3278
Ga	Taylor Fibre Co.	3272 Peachtree Rd. NE, Atlanta 5	CE7-0416
Ill	Taylor Fibre Co.	4652 W Lawrence Ave. Chicago 50	AV3-6474
Ind	Taylor Fibre Co.	6265 N Carrolton Ave. Indianapolis 20	CL1-9577
Mich	Taylor Fibre Co.	16126 Meyers Rd. Detroit 35	UN2-3127
Mo	Taylor Fibre Co.	206 W Argonne Dr. St. Louis 22	YO6-4800
NY	Taylor Fibre Co.	76 S Tyson Ave. Floral Park	FI7-5474
Ohio	Taylor Fibre Co.	2245 Warrensville Center Rd. Cleveland 18	ER1-3775
Wis	Taylor Fibre Co.	1348 N 37th St. Milwaukee 8	DE2-8100
	TAYLOR FORGE & PIPE WORKS	**Box 485, Chicago, Ill**	**BI2-3400**
Cal	Taylor Forge & Pipe Works	2401 S Saybrook Ave. Los Angeles 22	OV5-7562
Cal	Taylor Forge & Pipe Works	114 Sansome St. San Francisco 4	GA1-7041
Ga	Taylor Forge & Pipe Works	141 Carnegie Way, NW, Atlanta 3	JA1-0555
NY	Taylor Forge & Pipe Works	30 Church St. New York 7	CO7-9010
Pa	Taylor Forge & Pipe Works	338 Suburban Sta. Bldg. Philadelphia 3	LO8-2660
Pa	Taylor Forge & Pipe Works	530 Bell Ave. Carnegie	WA2-0663
Tex	Taylor Forge & Pipe Works	707 N Drennan St. Houston 1	CA3-4731
Wash	Taylor Forge & Pipe Works	3rd & Stewart, Seattle 1	MA4-5583
	TAYLOR INSTRUMENT COS.	**38 Ames St. Rochester 1, NY**	**BE5-3000**
	TAYLOR SONS CO., CHAS.	**Box 58, Cincinnati 14, Ohio**	**WA1-0250**
Cal	The Pryor-Giggey Co.	Box 739, Whittier	OX3-7748
Conn	C. Taylor Sons Co.	853 Beechwood Rd. Orange	SY9-2733
Ga	C. Taylor Sons Co.	5845 Greenbrier Rd. Atlanta 5	BL5-2085
Ill	C. Taylor Sons Co.	5495 Hyde Park Blvd. Chicago 15	MU4-3687
Mich	C. Taylor Sons Co.	Box 167, Franklin	MA6-6475
Mo	C. Taylor Sons Co.	Box 30, Webster Groves 19	WO1-4317
NJ	C. Taylor Sons Co.	5 Haddon Ave. Haddonfield	HA9-2332
Ohio	C. Taylor Sons Co.	3091 Mayfield Rd. Cleveland 18	ER1-2310
Pa	C. Taylor Sons Co.	1203 Peoples Bank Bldg. Pittsburgh 22	AT1-6362
Tex	Great Southern Supply Co.	6003 Murphy Ave. Houston 21	OL4-0655
	TAYLOR, TAYLOR & HOBSON DIV. RANK PREC. IND. LTD.	**Stoughton St. Leicester, Eng**	**LE2-0134**
Ill	Engis Equipment Co.	431 S Dearborn St. Chicago 5	HA1-3225
Eng	Taylor, Taylor & Hobson	Mortimer St. London, W1	MU5432
	TECH WIRE ASSOCIATES, INC.	**Commercial Ave. Moonachie, NJ**	**WE3-0900**
	TECHMANIX CORP.	**76 W 6th S, Salt Lake City, Utah**	**EL5-0215**
	TECHNICAL ASSOCIATES	**140 W Providencia Ave. Burbank, Cal**	**TH8-6649**
Cal	M. Asa	376 - 60th St. Oakland	TH1-4386
Cal	C. W. Reed Co. Inc.	5959 S Hoover, Los Angeles 44	PL3-2221
Ill	B. Z. Rubin Co.	607 N Grove Ave. Oak Park	EU3-0171
Mich	B. Z. Rubin Co.	12838 Fenkell Ave. Detroit 27	UN4-4958
Mo	Atomasters-Buntaine Corp.	111 W Jewel Ave. St. Louis 22	TA2-1961
NJ	W. B. Johnson & Assoc. Inc.	Box 416, Mountain Lakes	DE4-9222
Ohio	B. Z. Rubin Co.	515 E Grand Ave. Springfield	FA2-5893
Can	R. C. Testing & Control Systems	618 Vaughan Rd. Toronto 10, Ontario	
	TECHNICAL MEASUREMENT CORP.	**441 Washington Ave. North Haven, Conn**	**CE5-2591**
Cal	Technical Measurements Corp.	1310 Jones St. San Francisco	OR3-2783
Colo	Scientific Instruments	1460 Pennsylvania St. Denver 3	AL5-2777
Ill	Electronic Aides	1105 W Lawrence, Chicago 40	LO1-1042
NY	QED Electronic Sales, Inc.	9 Elm Ave. Mt. Vernon	MO8-3100
Tex	Carey & Wolf Co.	Box 6072, Fort Worth	PE8-1702
Wash	N. R. Schultz Co.	4227 Airport Way, Seattle 8	MA4-8650
Can	A. Crawford, Ltd.	5590 Yonge St. Willowdale, Ont.	BA5-7391
For	R. H. Stern	Zeil 123, Frankfurt/Main, Germany	2-7953
	TECHNICAL OPERATIONS, INC.	**South Ave. Burlington, Mass**	**BR2-2080**
	TECHNICAL SERVICE CORP.	**917-19 S 3rd, Louisville 3, Ky**	**JU7-8476**
	TECHNIQUE ASSOCIATES DIV. DUNCAN ELECTRIC CO.	**1413 Cornell Ave. Indianapolis, Ind**	**ME1-4904**
Cal	Instrument Laboratory	1836 W Florence Ave. Los Angeles	PL2-4104
Colo	Hyde Electronics Co.	888 S Lipan St. Denver 23	WE6-3456
Ga	The Gearhart Co.	Gearhart Bldg. Atlanta	CE3-4431
Ill	Murphy & Dickey	537 S Dearborn St. Chicago 5	HA7-7963
La	E. C. Deshautreaux	Box 261, Kenner	KE4-4665
Mass	Osgood Engineering Co.	110 Pleasant St. Malden 48	MA4-5508
Mo	E. Mooney	6653 Enright, University City	PA5-4271
NJ	F. J. Gamble	571 Fairview St. Riverside	HO1-4068
Ohio	L. H. Waldrip Co.	3030 Euclid Ave. Cleveland 15	EX1-4242
Pa	E. E. Whitaker & Son	822 Wood St. Pittsburgh	FR1-6220
Tex	The Gay Sales Co.	420 Sul Ross St. Houston	JA9-3479
Wash	Comptronics	2 Hanford St. Seattle	MA4-5136
	TECHNOLOGY INSTRUMENT CORP.	**531 Main St. Acton, Mass**	**CO3-7711**
Ariz	TIC of Arizona	1050 Valencia, Tucson 2	MA2-1092
Cal	TIC of California	850 Lawrence Dr. Newbury Park	HU5-2165
Cal	Acton Labs, Inc.	10715 Venice Blvd. Los Angeles	UP0-9516
Ill	TIC of Illinois	10130 W Pacific Ave. Franklin Park	GL1-1140
Ill	Crossley Associates, Inc.	2501 W Peterson Ave. Chicago	BR5-1600
NY	Avnet Electronics Corp.	70 State St. Westbury	ED3-5800
Tex	J. A. Green Co.	7118 Envoy Ct. Dallas 35	FL1-9947
	TEKTRONIX, INC.	**Box 500, Beaverton, Ore**	**CY2-2611**
Conn	Tektronix, Inc.	1122 Main St. Stamford	DA5-3817
Fla	Tektronix, Inc.	2330 9th St. S, St. Petersburg	OR1-6139
Ill	Tektronix, Inc.	400 Higgins Rd. Park Ridge	TA5-6666
Mass	Tektronix, Inc.	442 Marrett Rd. Lexington	VO2-7570
NJ	Tektronix, Inc.	400 Chestnut St. Union	MU8-2222
NY	Tektronix, Inc.	840 Willis Ave. Albertson	PI7-4830
NY	Tektronix, Inc.	961 Maryvale Dr. Buffalo	SP7861
NY	Tektronix, Inc.	3214 Watson Blvd. Endwell	PI8-8291
NY	Tektronix, Inc.	8 Raymond Ave. Poughkeepsie	GR1-3020
NY	Tektronix, Inc.	E. Molloy Rd. Syracuse 11	GL4-2426
Pa	Tektronix, Inc.	7709 Ogontz Ave. Phila	WA4-5678
Va	Tektronix, Inc.	9619 Columbia Pike, Annandale	CL6-7411
	TELECHROME MFG. CORP.	**28 Resick Dr. Amityville, NY**	**LI1-3600**
Cal	S. S. Krinsky	13635 Victory Blvd. Van Nuys	ST2-7479
Ill	D. E. Chapman	106 W St. Charles Rd. Lombard	MA7-6026
Tex	Telechrome Mfg. Corp.	4207 Gaston Ave. Dallas	TA3-3291

	TELECTRO INDUSTRIES CORP.	**35-16 37th St. LIC 1, NY**	**YE2-8600**
Cal	Long Associates, Inc.	505 Middlefield Rd. Redwood City	EM9-3324
DC	A&M Associates, Inc.	1145 19th St. NW, Washington 6	DI7-3592
Mass	Eastern Elect. Sales Co.	145 University Rd. Brookline	AS7-6675
Mich	S. Sterling Co.	15310 W McNichols Rd. Detroit 35	BR2-2990
Minn	Engineering Prods. Assoc.	1821 University Ave. St. Paul 4	MI5-3443
Mo	F. C. Somers & Co.	Davidson Bldg. Kansas City 8	
NJ	A&M Associates, Inc.	6 Sunnybrook Rd. Bernardsville	BE8-0629
NY	R. J. Marcy & Assoc.	1776 Broadway, New York 17	CI5-3880
Tex	Campion Sales Co.	9002 Chancellor Row, Dallas	FL7-4095
Wash	F. H. Haight Co.	3212 Eastlake Ave. Seattle 2	EA2-1818
Can	F. H. Haight Co.	3212 Eastlake Ave. Seattle 2, Wash	EA2-1818
	TELEFLEX INC.	**Church Rd. North Wales, Pa**	**DX9-4861**
Cal	Teleflex Inc.	16024 Ventura Blvd. Encino	ST8-5260
	TELEMECHANICS, LTD. TELEMAX WKS.	**Brokenford La. Totton Southampton, Eng**	**HA3666**
	TELEMETER MAGNETICS, INC.	**Box 329, Culver City, Cal**	**UP0-8571**
Cal	G. Tyson	Box 329, Culver City	UP0-8571
Conn	J. Todd-Murphy	Box 343, New Canaan	WO6-3736
DC	W. W. Follin	910 17th St. NW, Washington 6	NA8-1886
Ill	W. P. Wilson	Box 38, Lake Bluff	AN3-3121
Pa	M. Weitzenhoffer	Box 426, Levittown	WI9-3443
	TELEWELD INC.	**11535 Franklin St. Franklin Park, Ill**	**GL1-0900**
	TEL-INSTRUMENT ELECTRONICS CORP.	**728 Garden St. Carlstadt, NJ**	**WE3-1600**
Cal	J. F. Sodaro Co.	3895 Main St. Culver City	TE0-3213
Colo	Cox Sales Co.	Box 4201 S Denver St. Denver	PE3-6772
Fla	S. K. Wallace Assoc.	2705 Catalina Dr. Orlando	WE9-3241
Ill	K. W. Meyers Co.	6713 N Oliphant Ave. Chicago	SP4-6440
Kan	W. E. Goll	10611 W 56th Terr. Shawnee	RA2-2528
Mass	Instrument Dynamics, Inc.	11 Albion St. Wakefield	CR6-5130
NJ	G. W. Moler Co.	Box 240, Haddonfield	HA8-2440
NJ	Land Fear Enterprises	165 Franklin Ave. Nutley	NO7-2900
NY	ERP Associates	Box 23, Fayetteville	CH6890
Ohio	Custom Engineering Co.	2975 Far Hills Ave. Dayton 19	AX8-5246
Tex	Allied Components, Inc.	2517 Converse St. Dallas	RI2-2830
Wash	R. Johnston Co.	1011 E 69th St. Seattle 15	LA4-5170
	TELONIC ENGINEERING CORP.	**773 Broadway, Laguna Beach, Cal**	**HY4-7581**
Cal	T. L. Snitzer Co.	5354 W Pico Blvd. Los Angeles	WE8-2073
Ga	Scientific Sales Engineering Co.	2162 Piedmont Rd. NE, Atlanta	TR3-2475
Ill	Ridgway Associates, Inc.	6100 W North Ave. Chicago	TU9-5715
Md	C. E. Snow Co.	8218 Wisconsin Ave. Bethesda	OL4-1767
Mass	Instrument Dynamics, Inc.	11 Albion St. Wakefield	CR6-5130
NY	H. L. Hoffman Co.	35 Old Country Rd. Westbury	ED4-5600
NY	Tesco Associates	114 Miles Ave. Syracuse	HO3-4533
Ohio	Electro Sales Associates	281 E 216th St. Euclid	RE2-7444
Can	Hawthorne Electronics	112 Adm. Bldg. Boeing Fld., Seattle, Wash	PA5-1460
Can	Whittaker Electronics, Ltd.	2137 Niagara Dr. Ottawa, Ont	CE4-4686
For	Sylvan Ginsbury, Ltd.	8 W 40th St. New York, NY	LO4-7585
	TELONIC INDUSTRIES, INC.	**60 N 1st Ave. Beach Grove, Ind**	**ST7-7241**
Cal	T. L. Snitzer Co.	5354 W Pico Blvd. Los Angeles	WE8-2073
Ga	Scientific Sales Engineering Co.	2162 Piedmont Rd. NE, Atlanta	TR3-2475
Ill	Ridgeway Associates, Inc.	6100 W North Ave. Chicago	TU9-5715
Md	C. E. Snow Co.	8218 Wisconsin Ave. Bethesda	OL4-1767
Mass	Instrument Dynamics, Inc.	11 Albion St. Wakefield	CR6-5100
NY	H. L. Hoffman Co.	35 Old Country Rd. Westbury	ED4-5600
NY	Tesco Associates	114 Miles Ave. Syracuse	HO3-4533
Ohio	Electro Sales Associates	281 E 216th St. Euclid	RE2-7444
Can	Hawthorne Electronics	112 Adm. Bldg. Boeing Field, Seattle, Wash	PA5-1460
Can	Whittaker Electronics, Ltd.	2137 Niagara Dr. Ottawa, Ont.	CE4-4686
For	Sylvan Ginsbury, Ltd.	8 W 40th St. New York, NY	LO4-7585
	TEMCO ELECTRONICS DIV. TEMCO ELECTRONICS & MISSILES CO.	**Box 6191, Dallas 22, Tex**	**BR6-7111**
Cal	Temco Electronics	Box 271, Santa Ana	JE1-3290
DC	Temco Electronics	1625 I St. NW, Washington 6	DU7-1028
Ohio	Temco Electronics	525 3rd Natl. Bldg. Dayton	BA4-6061
	TEMPERATURE ENGINEERING CORP.	**1200 Union Landing Rd. Riverton, NJ**	**TA9-3800**
Md	C. E. Snow Co.	8218 Wisc Ave. Bethesda	OL4-1767
Mass	Thermo-Tech Sales	153 Sherman Rd. Chestnut Hill 67	HO9-0351
NJ	R. Jenkins	Stirling	MI7-1500
NY	J. Lazor Assoc. Inc.	Box 307, Rochester 1	LU6-6619
Ohio	S. E. Wallar	3521 Harvard Blvd. Dayton 6	CR5-4151
	TENNANT CO., G. H.	**701 N Lilac Dr. Minpls 22, Minn**	**LI5-3771**
Cal	G. H. Tennant Co.	26 O'Farrell St. San Francisco 8	DO2-3829
DC	G. H. Tennant Co.	2041 Wilson Blvd. Arlington, Va	JA5-7806
Ill	G. H. Tennant Co.	5875 Lincoln Ave. Chicago 45	LO1-3030
Mich	G. H. Tennant Co.	22601 Plymouth Rd. Detroit 39	KE5-7190
NC	G. H. Tennant Co.	603 Liberty Life Bldg. Charlotte 2	ED3-7522
Ohio	G. H. Tennant Co.	17602 Miles Ave. Cleveland 28	SK2-4660
Wash	G. H. Tennant Co.	101 Jones Bldg. Seattle 1	MA4-7997
	TENNELEC INSTRUMENT CO.	**Box 964, Oak Ridge, Tenn**	**5-3285**
	TENNEY ENGINEERING, INC.	**1090 Springfield Rd. Union, NJ**	**MU6-7870**
Ala	Specialized Electronics	529 N 19th St. Birmingham 5	FA4-1615
Cal	The Thorsch Co.	7361 Melrose Ave. Los Angeles 46	WE4-1191
Cal	The Thorson Co.	444 Olive St. San Diego	CY8-8388
Colo	Alta Engineering Co.	Box 213, Englewood	SU9-1861
Ill	Hugh Marsland & Co.	6699 Lincoln Ave. Chicago 45	OR6-1102
Ind	Hugh Marsland & Co.	6730 E 19th St. Indianapolis 19	FL6-4249
Mass	Test Systems, Inc.	414 Main St. Wakefield	CR6-5366
Mo	L. Mark Associates, Inc.	Box 8467, Kansas City 14	NI2-3313
NY	M. P. Andrews, Inc.	319 Mott Rd. Fayetteville	NE7-6405
Ohio	Tower Engineering Co.	3898 Linden Ave. Dayton 32	CL6-0831
Ohio	King Instrument Co.	5771 Ridge Rd. Cleveland 29	TU4-3450
Tex	Wallace Associates	2679 Freewood Dr. Dallas 20	FL7-7080
	TERADO CO.	**1068 Raymond Ave. St. Paul 8, Minn**	**MI6-2868**
	TERMINAL RADIO INTERNATIONAL, LTD.	**240 W 17 St. New York 11, NY**	**CH3-5200**
Arg	Dismatec Ltda.	Casilla 458, Valparaiso, Chile	7999
Aus	Watson Victor Ltd.	9-13 Bligh St. Sydney	
Bel	Inelco S. A.	20-24 Rue de l'Hopital, Brussels	
Fra	Ets. Vilber-Lourmat	175 Rue de Tolbiac, Paris	GO88-93
Ger	I. A. Knott	Muffatwr 8, Munich 23	331480
Isrl	Landseas-Eastern Co. Ltd.	33 Hahashmal St. Tel Aviv	75376
Ital	Soc. Lombarda Di TV Arl.	Piazzetta Maurilio Bossi 3, Milan	804.909
Jap	Toyo Trading Co. Ltd.	Box 999, Central-Tokyo	5278
Port	Wiese & Co. Lda.	Rua Do Alecrim, 12-A, Lisbon	34331
Spn	Giralt Laporta S.A.	Av. J. Antonio, 5, Madrid	21 64 20
Swed	Bo Palmblad Aktiebolag	Homagatan 58, Stockholm 8	44 92 95
Swit	Jacques Baerlocher Corp.	Nuschelerstr. 31, Zurich 39	25 09 36
	TERRISS-CONSOLIDATED IND.	**22-24 Wooster St. New York 13, NY**	**CA6-6410**
Ill	E. Magnus	7117 E End Ave. Chicago 49	
Mo	B. Sahleman	4262 Washington Ave. St. Louis	
	TETRA ENGINEERING CO., LTD.	**N End Rd. Wembley, Middx. Eng**	
	TEXAS INSTRUMENTS INCORPORATED	**6000 Lemmon Ave. Dallas 9, Tex**	**FL7-5411**
	TEXAS INSTRUMENTS INCORPORATED, GEOSCIENCES & INSTRUMENTATION DIV.	**3609 Buffalo Speedway, Houston 6, Tex**	**JA6-1411**
	TEXAS INSTRUMENTS INCORPORATED, M&C NUCLEAR INC. (A Subsidiary)	**Box 898, Attleboro, Mass**	**CA2-3800**
	TEXAS INSTRUMENTS INCORPORATED, SEMICONDUCTOR-COMPONENTS DIV.	**Box 312, Dallas, Tex**	**AD5-3111**
Cal	Texas Instruments Incorporated	9033 Wilshire Blvd. Beverly Hills	CR4-3257
DC	Texas Instruments Incorporated	1925 K St. NW, Washington 5	FE7-6400
Fla	Texas Instruments Incorporated	618 E South St. Orlando	GA2-0894
Ill	Texas Instruments Incorporated	5920 W Devon Ave. Chicago	RO3-1600
Ind	Texas Instruments Incorporated	Box 2297, Ft. Wayne	HA4251
Mich	Texas Instruments Incorporated	18230 W 7 Mile Rd. Detroit 19	KE5-8290
Minn	Texas Instruments Incorporated	1821 University Ave. St. Paul 4	MI5-2755
NJ	Texas Instruments Incorporated	1141 E Jersey St. Elizabeth	EL4-6600
NY	Texas Instruments Incorporated	600 Old Country Rd. Garden City	PI2-1515
NY	Texas Instruments Incorporated	State Tower Bldg. Syracuse 2	GR1-1841
Ohio	Texas Instruments Incorporated	2801 Far Hills Dr. Dayton 19	AX8-1934
Pa	Texas Instruments Incorporated	1 Belmont Ave. Bala-Cynwyd	TR8-1162
Tex	Texas Instruments Incorporated	Box 312, Dallas	AD5-2381
Tex	Texas Instruments Incorporated	3609 Buffalo Speedway, Houston 6	JA6-1411
Wis	Texas Instruments Incorporated	7255 W Appleton Ave. Milwaukee 16	HO4-8780
	TEXAS NUCLEAR CORP.	**Box 9267, Allendale Sta. Austin 17, Tex**	**GL3-7288**
Cal	C. W. Reed Co.	5959 S Hoover St. Los Angeles 44	PL3-2221
NY	American Commercial Inc.	212 5th Ave. New York 10	MU8-1691
Belg	B.I.R.N.	1026 Chaussee de Louvain, Bruxelles	
Can	R. C. Test. & Control Systems	139 Bond Ave. Dan Mills, Ontario	HI4-4454
	TEXAS RESEARCH FOUNDATION	**Renner, Tex**	
	THERMAL AMERICAN FUSED QUARTZ CO., INC.	**18-20 Salem St. Dover, NJ**	**FO6-2807**
	THERMAL DYNAMICS CORP.	**Lebanon, NH**	**LE1002**
	THERMAL REFRACTORIES CORP.	**4501 Dell Ave. North Bergen, NJ**	**UN5-1600**
Fla	Thermal Refractories Corp.	1430 E Adams St. Jacksonville	EL6-5602
Fla	Thermal Refractories Corp.	Box 2130, Tampa	45763
Md	Thermal Refractories Corp.	1024 Patapsco Ave. Baltimore	EL5-8500
	THERMAL RESEARCH & ENGINEERING CORP.	**750 Brook Rd. Conshohocken, Pa**	**TA8-5400**
Cal	Thermal Research & Eng. Corp.	Russ Bldg. San Francisco	YU6-6585
Colo	Thermal Research & Eng. Corp.	601 S Jason, Denver	SH4-1311
NY	Thermal Research & Eng. Corp.	70 E 45th St. New York City	MU6-5591
Ohio	Thermal Research & Eng. Corp.	2195 S Green Rd. Cleveland	EV2-0140
	THERMO ELECTRIC CO., INC.	**Saddle Brook, NJ**	**HU9-5800**
Cal	Thermo Electric Co., Inc.	19658 Ventura Blvd. Tarzana	DI5-1480
Ill	Thermo Electric Co., Inc.	5780 N Elston Ave. Chicago 46	NE1-7332
Ky	Thermo Electric Co., Inc.	Louisville	WX8875
Mass	Thermo Electric Co., Inc.	Box 125, Attleboro	CA2-3368
Mo	E. B. Miller Co.	10117 Manchester Rd. St. Louis 22	YO6-8250
NY	Thermo Electric Co., Inc.	New York	LO4-6290
Ohio	Thermo Electric Co., Inc.	7719 Reading Rd. Cincinnati 37	VA1-8875
Ohio	Thermo Electric Co., Inc.	Columbus	EN8875
Pa	Asobone & Cline	33rd & Arch Sts. Philadelphia 4	EV2-5526
Pa	Thermo Electric Co., Inc.	700 Wood St. Wilkinsburg	CH1-1200
Tex	Wright Industrial Products	5738 N Central Expwy. Dallas 6	TA4-2571
W Va	Thermo Electric Co., Inc.	Charleston	EN0875

	THERMOLYNE CORP.	**465 Hoff St. Dubuque, Iowa**	**583-3581**
	THOMAS CO., ARTHUR H.	**Vine St at 3rd, Philadelphia 5, Pa**	**MA7-5600**
Md	A. H. Thomas Co.	501 Southampton Dr. Silver Spring	HE9-2020
	THOMPSON & CO., JOHN I.	**1118-22nd St. NW, Washington 7, DC**	**FE7-4200**
Fla	JITCO, S. E.	3400 N Orange Blossom Trail, Orlando	GA5-2816
Pa	J. I. Thompson, Jr.	222 W High St. Bellefonte	EL5-9191
	THOMPSON FIBER GLASS CO., H. I. 1733 Cordova St. Los Angeles 7, Cal		**RE3-9161**
Conn	T. Kimberly	38 Crescent Circle, Cheshire	BR2-6544
Ind	Burnie Weddle	3219 W 29th St. Indianapolis	WA5-8685
Md	F. Muhlenfeld	6659 Loch Hill Rd, Baltimore	VA5-3135
Tex	M. Morris	2850A W Berry, Ft. Worth	WA4-8679
	THOMPSON, LTD., JOHN	**Wolverhampton, Eng**	
NY	J. Thompson Ltd.	461 Lexington Ave. New York 17	MU7-3888
Eng	J. Thompson Ltd.	Imperial Hse. Kingsway, London WC2	TE3216
Eng	J. Thompson Ltd.	Ettingshall, Wolverhampton, Staffs	8141121
	THOMPSON PRODUCTS LTD.	**St. Catharines, Ont, Can**	
	THOMPSON-RAMO-WOOLDRIDGE PRODUCTS CO.	**202 N Canon Dr. Beverly Hills, Cal**	**BR2-8892**
NY	T-R-W	200 E 42nd St. New York	
Tex	T-R-W	1510 Niels Esperson Bldg. Houston	
Ill	T-R-W	200 S Michigan Ave. Chicago	
	THOMPSON RAMO WOOLDRIDGE INC. TAPCO GROUP	**23555 Euclid Ave. Cleveland 17, Ohio**	**IV1-7500**
Cal	Tapco Group	207 Hindry Ave. Inglewood 1	OR8-7891
Cal	Tapco Group	111 Main St. Los Altos	WH8-9114
Conn	Tapco Group	43 Southwood Rd. Newington	MO6-5056
DC	Tapco Group	905 16th St. NW, Washington	ME8-5046
Fla	Tapco Group	202 Lakeview Bldg. North Palm Beach	VI4-1244
Kan	Tapco Group	6631 E Kellogg St. Wichita	MU2-5236
Mass	Tapco Group	114 Waltham St. Lexington 73	VO2-6370
Mo	Tapco Group	Manchester & Weideman, St. Louis 66	LA7-4391
Ohio	Tapco Group	3736 Susanna Dr. Cincinnati 39	JA2-2435
Ohio	Tapco Group	1304 Talbott Tower, Dayton	BA3-6266
Tex	Tapco Group	3948 Marquette, Dallas	EM8-3088
Utah	Tapco Group	Foothill Sta. Box 166, Salt Lake City	DA8-9473
	THOMSON-HOUSTON (Cie Francaise) 173 Blvd. Haussman, Paris 8, France		
NY	Thomson Electric Co.	60 Rockefeller Plaza, New York 20	CI5-0444
	THORDARSON-MEISSNER	**Mount Carmel, Ill**	**1200**
NY	A. Cerf & Co.	744 Broad St. Newark 2, NJ	MI2-6734
	TIGERMAN ENGINEERING CO.	**4332 N Western Ave. Chicago 18, Ill**	**IR8-9841**
Cal	J. Hyatt	6059 E Olympic Blvd. Los Angeles	RA3-6022
Mo	H. O. Halden Co.	20 On The Mall, Prairie Vlge. KC	EN2-4948
Tenn	Ridge Instrument Co.	162 Talmeda Rd. Oak Ridge	5-333
Tex	Paul-Condit Co.	Box 20094, Houston 28	JA6-3027
	TIMKEN ROLLER BEARING CO.	**1835 Dueber Ave. Canton 6, Ohio**	
	TITANIUM METALS CORP. of AMERICA 233 Broadway, New York 7, NY		**WO4-7620**
Cal	Titanium Metals Corp. of Amer.	6465 Corvette St. Los Angeles 22	RA3-8567
Ill	Titanium Metals Corp. of Amer.	6 N Michigan Ave. Chicago 2	ST2-5947
Ohio	Titanium Metals Corp. of Amer.	Illuminating Bldg. Cleveland 13	MA1-5450
Tex	Titanium Metals Corp. of Amer.	Exchange Bank Bldg. Dallas 35	FL7-4353
	TOKYO SHIBAURA ELECTRIC CO. LTD. 12 Yawata-cho 1-Chome Chiyoda-Ku, Tokyo, Jap		**(571) 5711**
	TORIT MFG. CO.	**1133 Roskin St. St. Paul, Minn**	**MI8-0391**
	TORK TIME CONTROLS, INC.	**60 MacQuesten Pkwy. Mt. Vernon, NY**	**MO4-3542**
Ark	J. Greene	Box 2591, Little Rock	MO4-2696
Fla	J. McWhorter	49 NE 22 St. Miami	FR9-8122
Ga	Verlyn Brawham	3181 F Roswell Rd. NE, Atlanta	CE3-1658
Ill	R. Kanter	4516 Jackson, Hillside	LI4-5884
Mass	J. Fay, Inc.	933 E 2nd St. S Boston	AN8-9483
Mich	B. Gardner	26940 Lyndon St. Detroit	KE1-1658
Minn	R. Gerde	2616 E 29th St. Minneapolis	WE9-0969
NY	Fay-Sullivan	940 S Salina St. Syracuse	GR6-1681
NC	W. Byrd	1920 Sullivan St. Greensboro	BR3-5932
Ohio	Cable-Hight	1900 Euclid Ave. Cleveland	SU1-7027
Pa	H. G. Anschultz	113 N 23 St. Philadelphia	LO4-0872
Pa	G. Lewis	Box 224, Bethel Park	TE5-8192
	TORSION BALANCE CO.	**35 Moshogan St. Clifton, NJ**	**GR3-6900**
Cal	E. R. Betts	785 Market St. San Francisco	YU6-3962
Ill	R. W. Alexander	224 S Michigan Ave. Chicago 4	WA2-8130
	TORWICO ELECTRONICS, INC.	**1080 Morris Ave. Union, NJ**	**EL4-5650**
Cal	T. L. Stevens Co.	15222 Grevillea, Lawndale	OR8-4782
Fla	J. Geartner Co.	235 Lincoln Rd. Miami Beach	JE1-0200
Ill	H. W. Gebhard Co.	5129 W Devon Ave. Chicago 30	RO3-3636
Mass	J. E. Boeing Co. Inc.	Box 235, Lexington 73	VO2-2500
Mo	Thunderbird Eng. Sales & Serv. Inc.	7811 Carondelet Ave. St. Louis 5	PA6-1413
NY	H. C. Johnson Agencies, Inc.	111 Mt. Hope Ave. Rochester 20	HA6-1099
Ohio	Service Equip. Electronics, Inc.	4500 Euclid Ave. Cleveland 3	HI1-7030

	TOSI, S. P. A., FRANCO	**Legnano, Milan, Italy**	**LE4-7690**
NY	Dr. A. Matteini	114 Liberty St. New York 6	
Arg	Franco Tosi Argentina	Calle Tucuman 358, Buenos Aires	
Fr	B.C.T.R.I.	6 Blvd. des Capucines, Paris	
Ital	Franco Tosi S.P.A.	Via Vittorio Veneto 89, Rome	
Ital	Franco Tosi S.P.A.	Via del Mille 7/2, Bologna	
Ital	Franco Tosi S.P.A.	Via San Luca 12/11, Genoa	
Ital	Franco Tosi S.P.A.	Via Fiorentini 76, Naples	
Ital	Franco Tosi S.P.A.	Via Tessaro 2, Padua	
	TOWNSON & MERCER, LTD.	**Beddington La. Croydon, Surr. Eng**	
	TRACERLAB, INC.	**1601 Trapelo Rd. Waltham 54, Mass**	**TW4-6600**
Cal	Tracerlab, Inc.	7311 Van Nuys Blvd. Van Nuys	ST2-3180
Cal	Tracerlab, Inc.	2030 Wright Ave. Richmond 3	BE5-2633
DC	Tracerlab, Inc.	226 Mass. Ave. NE, Washington	LI7-6622
Ill	Tracerlab, Inc.	325 W Jackson Blvd. Chicago	HA7-8981
Mich	Tracerlab, Inc.	255 E 9 Mile Rd. Ferndale 20	LI8-6290
Mo	Tracerlab, Inc.	4376 Lindell Blvd. St. Louis 8	JE3-7555
NY	Tracerlab, Inc.	13 Orient Way, Lyndhurst, NJ	WE9-8380
Pa	Tracerlab, Inc.	Oley	BA2-4066
Tex	Tracerlab, Inc.	2419 South Blvd. Houston 6	JA2-9401
Wash	Tracerlab, Inc.	11849 16th St. S, Seattle 88	CH3-7165
Holl	Tracerlab (Holland) N. V.	119 Singel, Amsterdam	
	TRAK ELECTRONICS CO. DIV. CGS LABS. INC.	**59 Danbury Rd. (Rte. 7), Wilton, Conn**	**PO2-5521**
Cal	Shephard-Winters Co.	3193 Cahuenga Blvd. Hollywood 28	
DC	Mehler, Goldsborough & Ives	2121 K St. W, Washington	
NY	A. M. Rothman	3720 87th St. Jackson Heights	
Ohio	M. Gams	1018 Knott Bldg. Dayton 2	
	TRANE CO.	**LaCrosse, Wis**	**2-8000**
Cal	R. English	1978 S Los Angeles St. Los Angeles 11	RI8-8318
Fla	R. D. Hazen	2009 SW 1st St. Miami 35	FR9-2771
Ga	M. Bevington	3121 Piedmont Rd. NE, Atlanta 5	CE7-4681
La	G. Shepherd	Delta Bldg. New Orleans 12	EX2358
Ill	G. F. Mannion	341 E Ohio St. Chicago 11	DE7-1900
Mich	W. Delany	15370 Schaefer Hwy. Detroit 27	BR3-3500
Mo	J. G. Hamm	6510 Lansdowne Ave. St. Louis 9	VE2-2543
NY	R. W. Thomas	801 2nd Ave. New York 17	MU4-4628
Pa	F. Manget	Term. Commerce Bldg. Philadelphia 8	MA7-4257
Tex	B. W. Clark	2511 N Haskell, Dallas 4	TA3-9558
Wash	W. F. Dudek	560 Broad St. Seattle 9	AT4-0900
Wis	C. A. Lokken	20th & Horton, La Crosse	2-8000
	TRANSFORMER ELECTRONICS CO. Boulder Ind. Park, Boulder, Colo		**HI2-3837**
Colo	TMT Associates	442 University Blvd. Denver	EA3-2826
	TRANSFORMERS, INC.	**200 Stage Rd. Vestal, NY**	**PI8-3311**
	TRANSITRON ELECTRONIC CORP. 168 Albion St. Wakefield, Mass		**CR9-4500**
Ariz	Transitron Electronic Sales Corp.	2727 N Central Ave. Phoenix	CR1-3368
Cal	Transitron Electronic Sales Corp.	6362 Hollywood Blvd. Hollywood 28	HO2-2381
Cal	Transitron Electronic Sales Corp.	535 Middlefield Rd. Palo Alto	DA1-2064
Ill	Transitron Electronic Sales Corp.	6641 W North Ave. Oak Park	VI8-5556
Md	Transitron Electronic Sales Corp.	2319 Maryland Ave. Baltimore	CH3-3270
Mich	Transitron Electronic Sales Corp.	2842 W Grand Blvd. Detroit	TR5-2440
NJ	Transitron Electronic Sales Corp.	1060 Broad St. Newark	MA3-3151
NY	Transitron Electronic Sales Corp.	2360 James St. Syracuse	HO3-4502
NC	Transitron Electronic Sales Corp.	310 W 4th St. Winston-Salem	PA3-0363
Ohio	Transitron Electronic Sales Corp.	379 W 1st St. Dayton	BA4-9651
Tex	Transitron Electronic Sales Corp.	511 Braniff Airways Bldg. Dallas 35	FL7-9448
	TRANSONIC, INC.	**808 16th St. Box 59, Bakersfield, Cal**	**FA7-5701**
Ariz	F. Schoeffler Associates	5822 S Wilshire Dr. Tucson	
Cal	Transonic, Inc.	12041 Wilshire Blvd. Los Angeles 25	BR2-2149
Cal	Transonic, Inc.	Box 356, Millbrae	LY1-8311
Mass	W. B. Pray Sales Co.	44 Washington St. Wellesley Hills	CE5-3199
Mo	Design & Sales Engineering Co.	25 N Meramec, St. Louis 5	
NJ	W. C. Stahl	90 E Cedar St. Merchantville 8	
Pa	L. Dietrich Co.	1404 Swanseck St. Pittsburg 4	
Wash	D. Smith Sales Co.	2380 N 45th St. Seattle 3	
	TRANS-SONICS, INC.	**Burlington, Mass**	**BR2-1000**
Ariz	G. French Co.	224 S Hinton Ave. Scottsdale	WH6-3504
Cal	Trans-Sonics Pacific	6250 Vista Del Mar, Playa del Rey	EX1-8714
Colo	G. French Co.	1480 Hoyt St. Denver 15	MA3-1458
DC	Arco Engineering Co.	134 Woodward Bldg. Washington 5	EX3-5991
Fla	E. C. Trigg	607 Endsley Ave. Maitland	MI7-3648
Ind	H. Marsland & Co.	6730 E 19th St. Indianapolis 19	FL6-4249
Mo	Kemp Engineering Co.	6414 A Hampton Ave. St. Louis 9	PL1-2175
NM	G. French Co.	7900 Zuni Rd, SE, Albuquerque	AM8-2478
Ore	Burnstead-Woolford Co.	421 SW 6th Ave. Portland 4	CA8-8686
Tex	Kemp Engineering Co.	2618 Manana Dr. Dallas 20	FL7-6663
Utah	G. French Co.	138 S 2nd E, Salt Lake City	EM4-3057
Wash	Burnstead-Woolford Co.	1411 4th Ave. Seattle	MA3-4918
	TRANTER MFG. INC.	**725 E Hazel St. Lansing 9, Mich**	**IV4-4531**
Cal	Duhig & Co. Inc.	2802 10th St. Berkeley 10	TH3-1670
Cal	Duhig & Co. Inc.	5105 Telegraph Rd. LA 22	AN3-7161
Colo	Alldredge & McCabe	847 E 17th Ave. Denver 18	AL5-7486
Ga	C. E. Johnson	412 Walton Bldg. Atlanta	JA2-2632
Ill	Meters & Controls, Inc.	444 N LaSalle St. Chicago 10	WH4-1448
Md	Tate Engineering, Inc.	516 S Eutaw St. Baltimore 1	LE9-0787

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Mass	W. B. Parsons Co.	Box 277, Needham 92	HI4-4870
Mich	Korest-Peterson Co.	712 New Center Bldg. Detroit 2	TR2-0551
NJ	G. B. Duff & Co.	2165 Morris Ave. Union	MU6-1747
Ohio	Glatte & Co.	2012 W 25th St. Cleveland	TO1-0898
Ohio	H. P. Thompson Co.	4866 Cooper Rd. Cincinnati 42	TW1-4414
Pa	P. B. Huyette Co. Inc.	401 N Broad St. Philadelphia 8	WA2-6070
	TRESCO, INC.	**3824 Terrace St. Philadelphia 28, Pa.**	**IV3-1303**
Mass	D. Ross	50 Prospect St. Cambridge	
Mo	J. Durbin	Box 5859 Ferguson Sta. St. Louis 35	JA1-1233
NJ	O. P. Marchand	10 Riverside Dr. Cranford	BR2-5319
NY	J. Costello	639 S Warren St. Syracuse	HA2-0532
Ohio	Lee & Stores	Box 115, Terrace Park	CH1-1844
Pa	Mid Eastern Associates	Box 306, Levittown	WI9-1195
	TRIMOUNT INSTRUMENT CO.	**3119 W Lake St. Chicago 12, Ill**	**HE2-3747**
	TRINITY EQUIPMENT CORP.	**Box 1172, Cortland, NY**	**SK6-7535**
Cal	G. D. Pribble Co.	3106 W Beverly Blvd. Montebello	RA3-8881
Ill	J. R. Simpson & Co.	1212 S 17th Ave. Maywood	FI5-1613
Mass	Carr Bros., Inc.	258 Park Square Bldg. Boston	LI2-1326
Mont	The Archibald Co.	Box 755, Butte	8075
NJ	Trincor Corp.	135 Chestnut St. Roselle Park	CH5-8400
NY	O. R. Lawrence Co.	4446 Main St. Buffalo 26	CI4422
Ohio	The Lester Johnson Co.	3909 E 123rd St. Cleveland 4	SK1-7040
Okla	The Condit Co.	1011 S Main St. Tulsa 19	LU5-1209
Ore	R. H. Brown & Co.	610 Henry Bldg. Portland 4	CA7-1155
Tenn	Abernathy-Thomas Eng. Co.	341-345 W Market St. Kingsport	CI5-6151
Tex	Paul-Condit Co., Inc.	Box 20094, Houston 25	JA2-1909
W Va	Allied Controls Co.	Box 8283, S Charleston	PO8-7313
	TRIO LABORATORIES, INC.	**Plainview, NY**	**OY1-0400**
Ala	Specialized Electronic Corp.	529 N 18th St. Birmingham 5	FA4-1615
Cal	A-F Sales Engineering, Inc.	385 E Green St. Pasadena	MU1-5631
Cal	Cerruti & Associates	Box 509, Redwood City	EM9-3354
Colo	Hytronic Measurements, Inc.	1295 S Bannock, Denver 23	PE3-3701
Ill	Hugh Marsland & Co.	6699 Lincoln Ave. Chicago	OR6-1100
Md	L. J. Daniels	Box 6864, Baltimore 4	PL4-7694
Mass	Instrument Dynamics, Inc.	11 Albion St. Wakefield	CR6-5100
NY	J. A. Reagan, Inc.	45 N Lake Ave. Albany 3	AL6-9649
NY	B. B. Taylor Corp.	2270 Grand Ave. Baldwin	BA3-8000
Ohio	M. P. O'Dell Co.	26614 Center Ridge Rd. Westlake	TR1-8000
Pa	S & S Associates, Inc.	780 W DeKalb Pk. King of Prussia	BR9-7198
Wash	Comptronics	2 Hanford St. Seattle 4	MA4-5135
	TRIO MACHINE WORKS, INC.	**3045 N 3rd St. Philadelphia 33, Pa.**	**GA6-0900**
	TRION INC	**1090 Island Ave. McKees Rocks, Pa**	**FE1-3300**
Cal	Tennity & Co., Inc.	1300 W 8th St. Los Angeles 17	DU8-3211
Cal	Pacific Scientific Co.	760 Harrison St. San Francisco 7	DO2-0934
Colo	Burke-Pearsall Co.	120 W 5th Ave. Denver 4	SP7-2691
DC	C. S. Stephens	3201 Wisconsin Ave. Washington 16	EM3-2132
Fla	Sanders & Arnold, Inc.	Box 56, Little River Sta. Miami 38	PL4-9894
Ill	Vesco, Inc.	1515 Cullerton St. Chicago 8	MO6-7474
Mich	D. S. Falk Co.	1460 Holden Ave. Detroit 8	TR1-2822
Mo	Engineered Equipment Co.	2201 Grand Ave. Kansas City 8	BA5669
NY	J. B. Hewett Co., Inc.	219 E 44th St. New York 17	MU7-3350
Tex	H. O. Knape & Co.	2615 Routh St. Dallas 4	RI7-7596
Wash	Pacific Scientific Co.	421 Michigan St. Seattle 8	PA5-7000
	TRIONICS CORP.	**Box 548, Madison 1, Wis.**	**CE8-2616**
	TRIPLETT ELECTRICAL INSTRUMENT CO. 286 Harmon Rd. Bluffton, Ohio		
Cal	Moulthrop & Hunter	165 11th St. San Francisco 3	UN3-7880
Cal	H. M. Saul & Associates	5015 San Vicente Blvd. Los Angeles 19	WE8-3591
Ill	Knoblock & Malone	1603 N Newland Ave. Chicago 35	NA2-4005
Mich	ABM Sales Co.	10116 Puritan Ave. Detroit 38	UN2-1300
Mo	H. A. Roes & Co.	2601 Cherry St. Kansas City 8	
NY	D. F. Tobias & Co., Inc.	30 Church St. New York 7	CO7-4350
Ohio	C. H. Dolfuss, Jr. & Co.	2108 Payne Ave. Cleveland 14	PR1-1270
Pa	G. Root & Co.	733 Vallevista Ave. Pittsburgh 34	LO1-4125
Pa	Massey Associates	529 Brookhurst Ave. Narberth	MO4-4200
RI	Adams & McGregor Associates	66 Lakeview Rd. Lincoln	
Wash	J. J. Backer Co.	221 W Galer St. Seattle	AT3-6470
Can	L. Finkler & Co.	1794 Avenue Rd. Toronto 12, Ont.	RU1-5232
	TRI-R INSTRUMENTS	**144-13 Jamaica Ave. Jamaica 35, NY**	
	TROTT ELECTRONICS, INC.	**412 Smith St. Rochester 8, NY**	**HA6-0150**
NY	J. Lazor Associates, Inc.	Box 307, Rochester 1	GR3-8337
	TUBE METHODS, INC.	**Depot & Rambo Sts. Bridgeport, Pa.**	**BR9-7700**
Cal	F. J. Lacke	425 E Green St. Pasadena 1	MU1-9534
Cal	District Sales Corp.	607 Market St. San Francisco	GA1-0426
Ill	J. R. Hill Co.	Box 314, Sterling	MA5-1788
Mich	W. F. Horsch	Box 5211, Grosse Pointe 36	TU1-9405
Minn	W. R. Dahlke	5712 Melody Ln. Minneapolis 24	WE9-2456
NJ	F. English	63 E Prospect St. Waldwick	GI4-3527
NY	W. Woodburn	21 Prince St. Rochester 7	BA5-0701
	TUBE REDUCING CORP	**520 Main Ave. Wallington, NJ**	**FR7-3700**
Ala	R. Wornock Co.	2031 9th Ave. Birmingham 1	FA3-4441
Ill	Tube Reducing Co. Davis Eng. Div	7256 W Touhey Ave. Chicago 19	
Ky	A. Holliday Co., Inc.	719 S Preston St. Louisville	JU2-2462
Mich	McGhee Engineering Sales Co.	8915 Littlefield, Detroit 28	TE4-2771

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
NY	Johnston Engineering	31 Gibbs St. Rochester	HA6-5330
Tenn	Croig Industrial Equipment Co.	Box 5776, Memphis 4	BR5-5777
	TUBE TURNS DIV. CHEMETRON CORP. 224 E Broadway, Louisville 1, Ky		**JU7-7551**
Cal	Tube Turns	2417 E 24th St. Los Angeles 58	LU7-8287
Colo	Tube Turns	1160 10th St. Denver 4	CH4-5807
Ga	Tube Turns	1301-03 Atlanta Fed. Savings Bldg. Atlanta 3	JA2-7310
Ill	Tube Turns	600 S Michigan Ave. Chicago 5	HA7-8526
Mich	Tube Turns	2591 W Grand Blvd. Detroit 8	TR3-7938
Mo	Tube Turns	910 Pennsylvania Ave. Kansas City	WE1-8111
NY	Tube Turns	150 Broadway, New York City 38	RE2-8236
Okla	Tube Turns	704 Wright Bldg. Tulsa 3	LU2-9193
Pa	Tube Turns	1718 Grant Bldg. Pittsburgh 19	AT1-8850
Pa	Tube Turns	1032 Suburban Sta. Bldg. Philadelphia 3	LO7-3218
Tex	Tube Turns	7120 Katy Rd. Houston 1	UN9-3531
Wash	Tube Turns	5510 E Marginal Way, Seattle 4	PA2-7500
	TUBE TURNS PLASTICS, INC.	**2929 Magazine St. Louisville 11, Ky**	**SP5-6431**
Cal	J. L. Sheehy	5234 Northlawn Dr. San Jose	DR9-2321
Ga	C. E. Hager, Jr.	2025 Peachtree Rd. Atlanta 9	TR4-8601
Ill	T. S. Bushnell	2904 W Cullom Ave. Chicago	IR8-0148
Md	J. S. McCulloch	1101 W Lake Ave. Baltimore 10	DR7-5662
NH	D. F. Burke	Box 104, Elm Ct. New Castle	GE6-7045
NJ	J. A. Thompson	27 6th Ave. Haskell	PL7-3638
Tex	D. A. Drake	7614 Wedgewood Ln. Houston 24	OV2-0840
	TUBELA ENGINEERING CO. LTD. Fowler Rd. Hainault, Essex, Eng		**HA4426/8**
Ill	Wallace Mfg. Co. Ltd.	1300 Diversey Pkwy. Chicago 14	
Can	Macnays (Canada), Ltd.	1330 Francis St. Vancouver 6, B. C.	
	TUNG-SOL ELECTRIC INC	**1 Summer Ave. Newark 4, NJ**	**HU4-8500**
Cal	Tung-Sol Sales Corp.	8575 Washington Blvd. Culver City	UP0-8711
Colo	J. H. Blinn Co.	841 Delaware St. Denver 4	KE4-8131
Ga	Tung-Sol Sales Corp.	1859 Cheshire Bridge Rd. NE, Atlanta 9	TR6-0739
Ill	Tung-Sol Sales Corp.	1975 N Hawthorne Ave. Melrose Park	FI5-3082
NJ	Tung-Sol Sales Corp.	517 Lyons Ave. Irvington 11	HU4-8500
Ohio	Tung-Sol Sales Corp.	755 W Goodale Blvd. Columbus	CA8-5494
Tex	The Branum Co.	2334 Havenhurst, Dallas	CH7-6356
Wash	R. Merritt Co.	1320 Prospect St. Seattle 9	MU2-7337
	TURBOCRAFT INC.	**492 E Union St. Pasadena, Cal.**	**HU1-5253**
Ohio	W. J. Bryson Co.	3328 St. Clair Ave. Cleveland 14	HE1-6333
Pa	Cryer Sales Engineering Co.	Theatre Sq. Swarthmore	KI4-1540
Tex	E. L. Lindsey Co.	Box 19296, Houston 24	JA2-0420
Wis	A. F. Woolsey	84 Madison St. Seattle 4	MA3-7061
	TURCO PRODUCTS, INC.	**Box 1055, Wilmington, Cal**	**SP5-2111**
Ga	Turco Products, Inc.	550 Glenn St. SW, Atlanta 3, Ga	PL3-5162
Ill	Turco Products, Inc.	Box 1161, Joliet	SA3-9359
Pa	Turco Products, Inc.	6447 Market St. Upper Darby	GR2-6011
Pa	Turco Products, Inc	530 6th Ave. Pittsburgh 35	EX1-1884
Tenn	Turco Products, Inc	871 McCallie Ave. Chattanooga 3	AM6-3220
Wash	Turco Products, Inc	617 Paulsen Bldg. Spokane	TE8-2501
	TUTTLE & KIFT DIV. FERRO CORP. 1823 N Monitor Ave. Chicago 39, Ill		**ME7-2620**
Cal	P. H. Potter Associates	1630 Foothill Blvd. Pasadena	
	20TH CENTURY ELECTRONICS LTD.	**King Henry's Dr. New Addington Croydon, Surr. Eng**	**LO2121**
NJ	Hamner Electronics	Box 531, Princeton	
NJ	Isomet Corp.	433 Commercial Ave. Palisades Park	
	U B S CHEMICAL CO.	**491 Main St. Cambridge 42, Mass**	**UN4-7300**
Cal	Everitt & Ray Inc.	1556 Industrial St. LA 21	MA7-7446
Ill	U B S Chemical Co.	4616 Augusta Blvd. Chicago 51	MA6-8687
NY	U B S Chemical Co.	117 Liberty St. New York 6	CO7-6521
	UGINE	**10 rue de General Foy, Paris 8, Fr**	
	UGINE-CARBONE	**15 rue de Rocher, Paris 8, Fr**	
	UGINE-GUEUGNON	**16 rue de La Ville-L'Evoque, Paris 8, Fr**	
	UGINE-INFRA	**20 bis, rue La Boetie, Paris 8, Fr**	
	ULANET CO. G.	**413 Market St. Newark 5, NJ**	**MA2-4876**
	ULTEK CORP.	**920 Commercial St. Palo Alto, Cal**	**DA1-4117**
Cal	King Knight Co.	360 Jefferson St. San Francisco	PR6-2700
Cal	Kinney Vacuum Div.	5058 Venice Blvd. Los Angeles 19	WE8-7292
Fla	Kinney Vacuum Division	115 Park St. Jacksonville 7	FL9-7141
Ill	Kinney Vacuum Division	17-19 S LaGrange Rd. La Grange	FL2-1280
Mass	Kinney Vacuum Division	3529 Washington St. Boston 30	JA4-3220
NJ	Kinney Vacuum Div.	1325 Admiral Wilson Way, Camden 11	WO6-0782
NY	Kinney Vacuum Div.	30 Church St. New York 7	WO4-8470
NY	Kinney Vacuum Division	State Tower Bldg. Syracuse	HA2-6563
Ohio	Ultek Corp.	12417 Cedar Rd. Cleveland	EK1-4844
Ohio	Kinney Vacuum Div.	240 E 305th St. Willowick	WH3-6800
Ore	Electro-Glass Lab.	4000 SW 114 St. Beaverton	
Tex	Kinney Vacuum Division	2720 Mockingbird Ln. Dallas 35	FL2-2860
	ULTRADYNE INC	**2622 San Mateo NE, Albuquerque, NM**	
Cal	Meredith Engineering Associates	385 E Green St. Pasadena	MU1-9957
Cal	Belilove Co.	420 Market St. San Francisco	YU2-3713
Colo	Rocket Components Co.	Box 213, Englewood	SU9-2548

Conn	Northeast Sales Engineering Co.	3013 Dixwell Ave., Hamden	CH8-4481
Kan	Associates Air Services	Box 3828, Wichita	AMT-3930
Ky	L. Dietrich Co.	338 W 1st St. Dayton 2, Ohio	BA3-8042
Mo	Associated Air Services	600 N Washington St. Sparta, Ill	577-W
NJ	Argus Aero Engineering Co.	Box 68, Warminster, Pa	OS5-4131
Ohio	L. Dietrich Co.	316 Marion Bldg. Cleveland 13	SU1-1855
Pa	L. Dietrich Co.	703 Clairton Blvd. Pittsburgh 36	TU1-2228
Tex	Associated Air Services	Box 13165, Dallas	FL2-2083
Wash	B. Porter Co.	1209 Poplar Pl. Seattle 44	EA3-8330

ULTRASONIC INDUSTRIES, INC. 141 Albertson Ave. Albertson, NY ... PI1-4333

Cal	Macal Electro-Sonics	210 N Glenoaks Blvd, Burbank	VI9-6473
Ill	Production Methods Co.	2941 Touhy Ave. Chicago 45	BR4-0600
Mich	Sonadyne Corp.	2906 N Saginaw Rd. Midland	TE2-3715
Tenn	Ridge Instrument Co.	162 Talmeda Rd, Oak Ridge	OA5-3333
Can	Ultrasonic Ind (Canada) Ltd.	1512 Eglinton Ave. W, Toronto 10	RU7-8831

UNIBRIX RADIATION SHIELDINGS LTD. 190 Piccadilly, London W1, Eng

UNI-MET RESEARCH DIV. L-H MFG. INC. Box 552, Coatesville, Pa ... DU4-4140

UNIMAX SWITCH DIV. W. L. MAXSON CORP. Ives Rd. Wallingford, Conn

UNION CARBIDE CHEMICALS CO. DIV. UCC 270 Park Ave. New York 17, NY LL1-2345

Cal	Union Carbide Chemicals Co.	2770 Leonis Blvd. Los Angeles 58	LU3-3061
Cal	Union Carbide Chemicals Co.	22 Battery St. San Francisco 6	YU2-1360
Ga	Union Carbide Chemicals Co.	1371 Peachtree St. NE, Atlanta 9	TR3-2941
Ill	Union Carbide Chemicals Co.	230 N Michigan Ave. Chicago 1	FI6-3300
Mass	Union Carbide Chemicals Co.	300 1st Ave. Needham Hts.	HI4-5400
Ohio	Union Carbide Chemicals Co.	1300 Lakeside Ave. Cleveland 14	MA1-4202
Pa	Union Carbide Chemicals Co.	Rt 38, Moorestown, N.J.	BE5-6200
Okla	Union Carbide Chemicals Co.	2901 S Harvard, Tulsa 24	HI2-5524
Tex	Union Carbide Chemicals Co.	3839 W Alabama, Houston 27	MO7-5641
Wash	Union Carbide Chemicals Co.	3404 4th Ave. S, Seattle 4	MA2-8247
Wis	Union Carbide Chemicals Co.	1633 S 38th St, Milwaukee 46	MO7-5181

UNION CARBIDE METALS CO. DIV. UCC 270 Park Ave. New York 17, NY .. LL1-2345

Ala	Union Carbide Metals Co.	2900 Cahaba Rd, Birmingham 2	TR3-4681
Cal	Union Carbide Metals Co.	2770 Leonis Blvd. Los Angeles 58	LU3-3061
Cal	Union Carbide Metals Co.	22 Battery St, San Francisco 6	YU2-1360
Ill	Union Carbide Metals Co.	230 N Michigan Ave. Chicago 1	FI6-3300
Mich	Union Carbide Metals Co.	10421 W Seven Mile Rd, Detroit 21	DI1-3131
NJ	Union Carbide Metals Co.	Roseberry & Marshall Sts. Phillipsburg	GL4-6403
NY	Union Carbide Metals Co.	Box 268, Niagara Falls	BU5-5221
Ohio	Union Carbide Metals Co.	1300 Lakeside Ave. Cleveland 14	MA1-4202
Pa	Union Carbide Metals Co.	537 Smithfield St. Pittsburgh 22	EX1-3800
Tex	Union Carbide Metals Co.	3839 W Alabama Ave. Houston 27	MO7-5641

UNION CARBIDE NUCLEAR CO. DIV. UNION CARBIDE CORP. Box X, Oak Ridge, Tenn ... LD220

UNION MINIERE DU HAUHT-KATANGA

		6 Rue Montagne du Parc, Brussels 1, Belg	123150
Belg	Soc Generale des Minerais	rue du Marais, Brussels 1	188030

UNION PUMP CO. ... 87 Capitol Ave. SW, Battle Creek, Mich ... WO2-6141

Cal	Union Pump Sales Co.	166 Santa Clara Blvd. Oakland	OL3-2838
Cal	Union Pump Sales Co.	1709 W 8th St. Los Angeles	HU3-5064
Colo	E. N. Murray Co.	1531 Denver Club Bldg. Denver	AL5-0533
Ill	Union Pump Sales Co.	608 S Dearborn, Chicago 5	WA2-6231
Minn	Power-Process, Inc.	746 Builders Exch. Minneapolis 2	FE2-8861
Mo	Union Pump Sales Co.	4638 J.C. Nichols Pkwy, Kansas City	LO1-5521
NJ	Union Pump Sales Co.	831 Charles St. Gloucester City	GL6-7385
NY	Union Pump Sales Co.	666 5th Ave. New York	HE4-4100
Okla	Union Pump Sales Co.	409 N Cincinnati, Tulsa	LU4-0358
Pa	Union Pump Sales Co.	300 Mt. Lebanon Blvd. Pittsburgh	LO1-8218
Tex	Union Pump Sales Co.	606 Bankers Mortgage Bldg. Houston 2	FA3-5391

UNION STEEL CORP. ... 1550 Ashwood Tow. Union, NJ ... MU7-2000

Cal	J. B. Donnell	555 E Walnut St. Pasadena	MU1-4701
Ga	P. G. Sheppard	45 11th St, NE, Atlanta 9	TR2-9268
Ill	J. Brierley	4754 Washington Blvd. Chicago 44	ES8-0155
Mass	T. Quarles	Box 264, Needham 92	HI4-5939
NJ	R. E. Rahill	119 S Mountain Ave. Montclair	PI4-7310
NJ	G. H. Davis	205 E Bettlewood Ave. Oaklyn 6	UL4-4011
Ohio	C. L. Gury	330 Overlook Dr. Chagrin Falls	KI3-6784
Tex	R. M. Feighl	2132 Lexington, Houston 6	JA9-0987

UNION ULTRA-SONICS CORP. 111 Penn St. Quincy 69, Mass ... GR9-6800

UNISTRUT DIV. SANKEY SHELDON, LTD. 43-5 Broadwater Rd. Welwyn Garden City, Herts, Eng ... WE6321

UNIT PROCESS ASSEMBLIES .. 53-15 37th Ave. Woodside 77, NY ... TW9-9090

UNITED AIRCRAFT PRODUCTS, INC. Box 1035, Dayton 1, Ohio ... BA4-3841

Cal	UAP, Inc.	Box 20, Gardena	FA1-4810
Mass	UAP, Inc.	19 Anselm Terrace, Brighton 35	AL4-2488
NY	UAP, Inc.	50 E 42nd St. New York 17	MU7-1283
Tex	UAP, Inc.	3050 Northaven Rd. Dallas 29	CH7-2622

UNITED CARBON PRODUCTS CO. INC. Box 747 Bay City, Mich. ... TW3-4575

UNITED CONTROL SYSTEMS INC. 918 Woodley Rd. Dayton 3, Ohio ... CL4-3567

UNITED FLEXIBLE METALLIC TUBING (CANADA) LTD. ... Box 149, Richmond Hill, Ont. Can ... WA3-5193

UNITED MFG. DIV. W. L. MAXSON CORP. ... 41 Haig St. Hamden 14, Conn ... CH8-4491

Cal	United Manufacturing Division	9047 E Florence, Downey	TO2-8710
Ohio	United Manufacturing Division	3708 Endover Rd. Dayton 36	AX9-5772

UNITED SHOE MACHINERY CORP. ATOMIC POWER DEPT. Balch St. Beverly, Mass

U.S. BORAX & CHEMICAL CORP. 50 Rockefeller Plaza, New York 20, NY .. JU2-6262

Cal	U. S. Borax & Chemical Corp.	630 Shatto Pl. Los Angeles 5	DU7-5151
Ga	U. S. Borax & Chemical Corp.	1827 Peachtree St. Atlanta 9	
Ill	U. S. Borax & Chemical Corp.	3456 Peterson Ave. Chicago 45	IN3-0268
Ohio	U. S. Borax & Chemical Corp.	5012 Euclid Ave. Cleveland 3	

U.S.CONTROLS, INC ... 410 4th Ave. Brooklyn 15, NY

Cal	Dyna Sales Co.	4645 E Olympic Blvd. Los Angeles	
Mich	J. M. Perry	2339 Oakwood Dr. SE, E Grand Rapids	CH3-9320
Mich	Webco, Inc.	15756 Wyoming, Detroit	UN2-4673
NJ	N. Bragar Co.	10 Stony Hill, Summit	CR3-1676
NY	Lane Engineering	1807 Elwood Ave. Buffalo	RI0770
Ohio	A. N. Ulrich Co.	Box 6584 Bexley Br. Columbus	BE7-3948
Ohio	A. N. Ulrich Co.	Box 488 Willoughby, Cleveland	WH6-2033
Tenn	J. B. Johnson Co.	Box 352, Knoxville	7-5845
Utah	The Sherman Nabaum Co.	4777 S 13th St. E, Salt Lake City	CR7-0439

U. S. GRAPHITE CO., DIV. WICKES CORP. Holland Ave. Saginaw 5, Mich ... PL5-0441

U. S. HOFFMAN MACHINERY CORP. 103 4th Ave. New York 3, NY

U. S. INDUSTRIAL CHEMICALS CO. DIV. NATL. DISTILLERS & CHEMICAL CORP. ... 99 Park Ave. New York 16, NY ... DX7-6700

Cal	U. S. I.	1901 W 8th St. Los Angeles 57	DU8-1423
Ill	U. S. I.	634 S Michigan Ave. Chicago 5	WA2-1650
Ky	U. S. I.	111 S Hubbard's Ln. Louisville 7	TW5-5456
La	U. S. I.	708 Maritime Bldg. New Orleans 12	JA2-0521
Md	U. S. I.	200 E Joppa Rd. Baltimore 4	VA5-1141
Mass	U. S. I.	150 Causeway St. Boston 14	CA7-8140
Mich	U. S. I.	1448 Wabash Ave. Detroit 16	WO1-4220
Mo	U. S. I.	903 McGee St. Kansas City 6	VI2-2413
NY	U. S. I.	420 Lexington Ave. New York 17	OX7-0700
Ohio	U. S. I.	3319 Glenmore Ave. Cincinnati 11	MO2-1222
Ohio	U. S. I.	Rockefeller Bldg. Cleveland 13	CH1-0073
Pa	U. S. I.	1 Bala Ave. Bala Cynwyd	MO4-5110

U.S.I. TECHNICAL CENTER DIV. U.S. INDUSTRIES, INC. 3901 NE 12 Ave. Pompano Beach, Fla ... WH1-1800

DC	U. S. Industries, Inc.	1612 K St. NW, Washington 6	ST3-8556

U. S. NUCLEAR CORP ... 801 N Lake St. Burbank, Cal ... VI9-6176

Ill	B. Z. Rubin Co.	607 N Grove Ave. Oak Park	EU3-0171
Mich	B. Z. Rubin Co.	12838 Fenkell Ave. Detroit 27	UN4-4956
Ohio	B. Z. Rubin Co.	515 E Grand Ave. Springfield	FA2-5498
For	Frazar & Hansen, Ltd.	301 Clay St. San Francisco 11, Cal	
For	Frazar & Hansen, Ltd.	225 W 23rd St. Los Angeles 7, Cal	

U. S. PIPE & FOUNDRY CO. STEEL & TUBES DIV. Burlington, NJ ... DU6-1850

Ala	U. S. Pipe	3300 1st Ave. N, Birmingham	AL1-3161
Cal	U. S. Pipe, S&TD	5249 Shelia St. Los Angeles	AN3-2149
Cal	U. S. Pipe, S&TD	607 Market St. San Francisco	GA1-0428
Conn	U. S. Pipe, S&TD	8 Stodmor Rd. Simsbury	OL8-9935
Ill	U. S. Pipe, S&TD	101 S Pine St. Mt. Prospect	CL9-2050
NY	U. S. Pipe, S&TD	3 E 44th St. New York	TU6-6674
Ohio	U. S. Pipe, S&TD	20950 Center Ridge Rd. Cleveland	ED3-1771
Pa	U. S. Pipe, S&TD	300 Mt. Lebanon Blvd. Pittsburgh	FI1-3595
Tex	U. S. Pipe, S&TD	6300 N Central Expwy. Dallas	EM3-2563

U. S. RADIUM CORP ... Box 246, Morristown, NJ ... JE9-4000

Ala	Aeromart, Inc.	1603 Red Oak Rd. SE, Huntsville	JE5-9313
Cal	United States Radium Corp.	5420 Vineland Ave. North Hollywood	ST7-0247
Fla	Aeromart, Inc.	1700 Circle Dr, Orlando	CR7-1243
Ga	Aeromart, Inc.	3230 Peachtree Rd. NE, Atlanta	CE3-5519
Ill	United States Radium Corp.	5942 W Chicago Ave. Chicago 51	MA6-4878
Mass	E. E. Wild	4 Brattle St. Cambridge	KI7-1170
Minn	R. G. Ragon	1406 W Idaho Ave. St. Paul 13	MI6-6937
Ohio	W. E. Neubrander	1494 Lincoln Ave. Lakewood 7	LA1-3619
Okla	R. A. Masler	1405 Garland Dr. Oklahoma City	GA4-1675
Pa	United States Radium Corp.	Box 380, Bloomsburg	ST4-3510
Tex	Aeromart, Inc.	2811 Bole Ave. Amarillo	DR4-8147

U. S. RADIUM CORP. (EUROPE) 36 Ave. Krieg, Geneva, Switzerland ... 309853

NJ	U. S. Radium Corp.	Hanover Ave. Morristown	JE9-4000

U. S. STEEL CORP. ... 525 Wm. Penn Pl. Pittsburgh 30, Pa ... EX1-2345

Conn	U. S. Steel Corp.	37 Lewis St. Hartford	
Ill	U. S. Steel Corp.	208 S LaSalle St. Chicago 90	
Ind	U. S. Steel Corp.	320 N Meridian St. Indianapolis 6	
Md	U. S. Steel Corp.	300 St. Paul Pl. Baltimore 2	
Mass	U. S. Steel Corp.	20 Providence St. Boston 16	
Mich	U. S. Steel Corp.	9-236 Gen. Motors Bldg. Detroit 2	
Minn	U. S. Steel Corp.	334 Minnesota St. St. Paul 1	
Mo	U. S. Steel Corp.	1221 Locust St. St. Louis 3	
NY	U. S. Steel Corp.	424 Main St. Buffalo 2	

NY	U. S. Steel Corp.	71 Broadway, New York 6	
Ohio	U. S. Steel Corp.	526 Superior Ave. Cleveland 14	
Pa	U. S. Steel Corp.	1617 Pennsylvania Blvd. Philadelphia 3	
	U. S. STONEWARE CO.	**Akron 9, Ohio**	**ME3-3224**
Cal	U. S. Stoneware Co.	908 Atlantic Blvd. Los Angeles	AN8-3000
Ill	U. S. Stoneware Co.	1515 N Harlem Ave. Oak Park	AU7-1611
NY	U. S. Stoneware Co.	60 E 42nd St. New York 17	MU2-8577
Tex	U. S. Stoneware Co.	4101 San Jacinto St. Houston 4	JA8-0421
	U. S. TESTING CO., INC.	**1415 Park Ave. Hoboken, NJ**	**SW2-2400**
Cal	U. S. Testing Co., Inc.	1723 S Maple Ave. Los Angeles 15	RI7-9264
Colo	U. S. Testing Co., Inc.	2600 W 29th Ave. Denver 11	GE3-6491
Mass	U. S. Testing Co., Inc.	288 A St. Boston 10	HA6-8151
NY	U. S. Testing Co., Inc.	Port Authority Bus Term. New York 18	CH4-8130
Okla	U. S. Testing Co., Inc.	609 S Peoria Ave. Tulsa 20	LU2-5134
Pa	U. S. Testing Co., Inc.	3925 M St. Philadelphia 24	CU8-0326
Tenn	U. S. Testing Co., Inc.	214 Cotton Exch. Bldg. Memphis 3	JA6-4231
Tex	U. S. Testing Co., Inc.	1700 Cotton Exch. Bldg. Dallas 1	RI7-9179
Tex	U. S. Testing Co., Inc.	Box 807, Brownsville	LI2-7111
	UNITED TRANSFORMER CORP.	**150 Varick St. New York, NY**	**AL5-3500**
Cal	U T C Pacific Div.	4008 W Jefferson Blvd. LA	RE1-8313
Cal	Mc Knight Co.	1436 El Camino Real, Menlo Park	DA6-3762
Ga	J. Millar Associates	Box 116, Sta. C, Atlanta	TR6-0919
Mass	Gerber Sales Co.	48 Pearl St. Brookline	BE2-2425
Minn	F. B. Hill Co.	6110 Excelsior Blvd. Mnpls.	WE9-6727
Mo	W. N. Wellman	Box 166, Fenton	DA6-0313
NY	Comtronic Associates	1551 Franklin Ave. Mineola	PI1-8968
NY	F. W. Taylor Co. Inc.	Box 222, Dewitt	GI6-0422
Ohio	M. Roth Sales Co.	13947 Cedar Rd. Cleveland	YE2-4262
Pa	L. D. Lowery	50 E Wynnewood Rd. Wynnewood	MI2-9100
Tex	J. Y. Schoonmaker	5328 Redfield St. Dallas	LA6-7238
Wash	Northwestern Agencies	4130 1st Ave. S. Seattle	MA3-8882
	UNITRON INSTRUMENT DIV. UNITED SCIENTIFIC CO.	**204 Milk St. Boston, Mass**	**HA6-9878**
	UNIVERSAL CYCLOPS STEEL CORP. Bridgeville, Pa		**CA1-8000**
Cal	Universal-Cyclops Steel Corp.	7046 Hollywood Blvd. Los Angeles 28	HO4-9191
Conn	Universal-Cyclops Steel Corp.	75 Pearl St. Hartford 3	CH9-8613
DC	Universal-Cyclops Steel Corp.	1025 Conn. Ave. Washington 6	EX3-2222
Ill	Universal-Cyclops Steel Corp.	2000 N 15th Ave. Melrose Park	MU1-1140
Ind	Universal-Cyclops Steel Corp.	716 Union Title Bldg. Indianapolis 4	ME8-7597
Mass	Universal-Cyclops Steel Corp.	15 Sagamore Rd. Worcester 5	PL5-3563
Mich	Universal-Cyclops Steel Corp.	24800 Plymouth Rd. Detroit 39	KE4-1358
NJ	Universal-Cyclops Steel Corp.	40 Stern Ave. Springfield	DR6-3060
NY	Universal-Cyclops Steel Corp.	1039 Niagara St. Buffalo 13	SU2275
Ohio	Universal-Cyclops Steel Corp.	5708 Schaaf Rd. Cleveland 31	LA4-4444
Pa	Universal-Cyclops Steel Corp.	Box 179, Haverford	MI9-2500
Wis	Universal-Cyclops Steel Corp.	Box 183, Milwaukee 12	SP1-3140
	UNIVERSAL NUCLEAR CORP.	**178-03 Hillside Ave. Jamaica 32, NY**	**RE9-7770**
NY	Universal Nuclear Corp.	611 Broadway, New York 12	GR3-1720
	UNIVERSAL TRANSISTOR PRODUCTS CORP. 36 Sylvester St. Westbury, NY		**ED3-3304**
Ariz	King-Moon Co., Inc.	4926 Nofral Rd. Woodland Hills, Cal	DI7-6216
Cal	Wallace & Wallace	1206 Maple Ave. Los Angeles	RI7-0401
Conn	Zaslow Sales Co.	108 Foxcroft Rd. West Hartford 7	AD6-3265
Mich	Burcaw-Cowan & Co.	22128 Grand River Ave. Detroit	KE3-7100
NJ	W. Kramer	1 Fox Ln. Levittown, NY	PE1-0445
NM	King-Moon Co., Inc.	4926 Nofral Rd. Woodland Hills, Cal	DI7-6216
NY	W. Kramer	1 Fox Ln. Levittown	PE1-0445
NY	R. Springer	578 Dartmouth St. Westbury	ED4-0969
Wash	R. Johnston Co., Inc.	1011 E 69th St. Seattle 15	LA4-5170
	URANIUM INSTRUMENTS CO.	**Box 1191, Grand Junction, Colo**	**CHZ-6058**
Alas	Polaris Engineering, Inc.	Box 186, Fairbanks	
NM	Aero Electronics	Grants Mun. Airpt. Box 787, Grants	
Mex	Invest-Mes, S. A.	Durango 104-6 Piso, Mexico 7	
	UTRAD, INC.	**305 N Briant St. Huntington, Ind**	**4988**
Cal	Logan Sales Co.	150 8th St. San Francisco 3	
Ill	Ellinger Sales Corp.	6540 Northwest Hwy. Chicago 31	
Ind	E. S. Needler	Sta. C, Box 2407, Fort Wayne 6	
Mass	The Dan Green Organization, Inc.	Box 124, Cambridge 38	
Mich	Henschen-Jensen & Co.	2842 W Grand Blvd. Detroit 2	
Minn	Hamilton & Bayles Associates, Inc.	3359 Republic Ave. Minneapolis 26	
Mo	H. A. Roes & Co.	2601 Cherry St. Kansas City 1	
NY	Be-Esco Sales Corp.	45 S Broadway, Yonkers	
NC	Murphy & Cota	2036 Norton Rd. Charlotte 7	
Ohio	F. Kahsar	4628 Glenway, Cincinnati	
Pa	G. S. Root & Co.	733 Vallevista Ave. Pittsburgh 34	
Tex	Branum Sales, Inc.	2334 Havenhurst, Dallas 34	
	VACTRIC (CONTROL EQUIPMENT) LTD.	**Sloane St, London SW1, Eng**	
	VACUUM APPARATUS CO.	**906 Industrial Ave. Palo Alto, Cal**	**DA1-4350**
	VACUUM-ELECTRONIC CORP.	**Terminal Dr. Plainview, NY**	**OV1-8300**
Cal	Vacuum-Electronics Corp.	2701 Spring St. Redwood City	EM9-4183
DC	Vacuum-Electronics Corp.	Washington	EX3-2882
Fla	E. G. Holmes & Associates	Box 7783, Orlando	CH1-2128
Ga	E. G. Holmes & Associates	4969 Roswell Rd. NE, Atlanta 5	BL5-6660
Ill	Vacuum-Electronics Corp.	24 Plaza, Park Forest	PI8-5070
Mass	Vacuum-Electronics Corp.	Boston	LA3-5181
NY	Vacuum-Electronics Corp.	E Gate Blvd. Roosevelt Field, Garden City	PI1-8076
Ohio	Vacuum-Electronics Corp.	12417 Cedar Rd. Cleveland Heights	YE2-0560
Tex	Vacuum-Electronics Corp.	Box 30097, Dallas 30	FL1-3578

	VACUUM INSTRUMENT CORP	**Huntington Station, NY**	**HA3-5520**
Cal	R. G. Reeves Associates	1130 McKinley, Oakland	GL2-0769
Cal	Fieldtec Services	Box 325, Tustin	LI4-5615
Mass	T. Kennedy Co.	19 Forest Rd. Wakefield	CR5-5532
Mich	Anger Associates	13126 Mich. Ave. Dearborn	LU4-9853
Minn	Lind Electronics Co.	9781 Western Ave. Circle Pines	SU4-3827
Mo	Eng. Services Co.	6717 Vernon Ave. St. Louis	PA6-2233
NY	H. Shprentz Co.	126 Deertrack Ln. Irvington	LY1-7970
NY	J. B. Lightstone	515 Comstock Ave. Syracuse	GR5-8704
Pa	J. T. Griffin Co.	32 S Fairfield Rd. Devon	MU8-4821
Pa	K. J. Lesker Co.	4535 Verman Ave. Pittsburgh	TU1-4666
Tenn	Ridge Instrument Co.	162 Talmeda Rd. Oak Ridge	OA5-3333
For	Telesco Int'l Co.	171 Madison Ave. New York, NY	MU3-9420
	VACUUM METALLURGICAL DEVELOPMENTS, LTD.	**Shelford, Cambridge, Eng.**	**SH3134**
Pa	Hull Corp.	Hatboro	OS5-5000
	VACUUM RESEARCH (CAMBRIDGE) LTD.	**Quayside, Bridge St. Cambridge, Eng**	
	VACUUM SPECIALTIES CO., INC. 34 Linden St. Somerville 2, Mass		**MO6-5450**
Cal	L. Patrick Associates	1107 S Fremont Ave. Alhambra	CU3-6371
Cal	L. Patrick Associates	201 Town & Country Village, Palo Alto	DA1-6065
	VALCOR ENGINEERING CORP. 333 Carnegie Ave. Kenilworth, NJ		
Ariz	Rowe Sales Co.	Box 12093 SE, Phoenix	BR5-4241
Cal	C. R. Dalton Associates	1037 Laural St. San Carlos	LY1-2654
Cal	Oman-Mason Co.	16611 Ventura Blvd. Encino	ST8-5650
Ga	L. C. Estes	210 Rutland Bldg. Decatur	DR3-0900
Ill	Ancar Engineering, Inc.	3315 N Harlem Ave. Chicago	AV2-0463
Md	G. Goodman Co.	103 E 25th St. Baltimore	BE5-8373
Mass	Kenett Corp.	320 Washington St. Brookline	LO6-0378
Mich	J. M. Reed Co.	2832 E Grand Blvd. Detroit	TR3-1187
NY	G. O. Miller Co.	639 S Warren St. Syracuse	HA2-5904
Ohio	The Isaacs Co.	2708 Vine St. Cincinnati	PL1-2414
Ohio	Roc Engineering & Sales Co.	Box 241, Worthington	TU5-1057
Tex	Kencar Co.	3405 Bilgrade Rd. Ft. Worth	WA3-4476
	VALOR INSTRUMENTS, INC.	**13214 Crenshaw Blvd. Gardena, Cal**	**DA3-6168**
Ariz	P. M. Carter	Box 94, Scottsdale	WH5-3611
Cal	R. L. Mark	7327 W 82nd St. Los Angeles 45	SP6-0433
Cal	Beall Electronic Sales Co.	Box 907, Palo Alto	DA1-8501
Ill	S. C. Blaker Co.	2353 N Calif Ave. Chicago 47	BR5-1230
Mass	Addelco Corp.	1826 Centre St. West Roxbury	FA3-7940
Mo	McDowell-Redlingshafer Sales Co.	3615 Olive St. St. Louis	JE3-3277
NY	H. L. Hoffman & Co.	35 Old Country Rd. Mineola	ED4-3600
NY	W. E. Baker Sales Co.	299 Hazelwood Ter. Rochester 9	HU2-2670
Ore	D. H. Burcham Co.	510 NW 19th Ave. Portland 8	CA7-3830
Pa	Tyler Griffin Co.	32 S Fairfield Rd. Devon	MU8-4821
Tex	Carey-Wolf Co.	Box 6072, Fort Worth	PE8-1702
Can	A. Deskins Sales Co.	1091 14th St. St. Martin, Montreal 40	HU9-4437
	VANADIUM CORP. OF AMERICA	**420 Lexington Ave. New York 17, NY**	**LE2-3580**
	VANGUARD INSTRUMENT CO.	**Box 244, La Grange, Ill**	**CL7-2561**
	VANTON PUMP & EQUIPT. CORP. Bley St. & Ramsey Ave. Hillside, NJ		**WA6-2435**
Ariz	Barrett Haentjens Sales Co.	Box 12037, Phoenix	
Cal	H-W Engineering Co.	2607 Cypress St. Oakland 7	
Cal	Plasttrol	641 Monterey Pass Rd. Monterey Park	
Colo	Alldredge & Mc Cabe	847 E 17th Ave. Denver 18	
Ill	H. Holland & Son	9 S Clinton St. Chicago	
Mass	Excelline Co.	1453 Great Plain Ave. Needham 92	
Mich	H. Holland & Son	10600 Puritan Ave. Detroit	
Mo	Process Eng. & Equip. Co.	9011 Manchester Rd. St. Louis 17	
NJ	H. E Stone Engineering Co.	2 E Haddon Ave. Oaklyn 6	
NJ	Jobar Equipment Co.	Box 114, South Orange	
Ohio	J. W. Spencer Associates	839 Soc. For Savings Bldg. Cleveland	
Pa	Gilling Engineering Co.	1207 Chateau St. Pittsburgh 33	
	VARD	**2981 E Colorado, Pasadena, Cal**	**SY6-9281**
Pa	G. R. Kepner	1721 Oliver Bldg. Pittsburgh 22	AT1-3696
	VARIAN ASSOCIATES	**611 Hansen Way, Palo Alto, Cal**	**DA6-4000**
	VARI-L CO., INC.	**207 Greenwich Ave. Stamford, Conn**	**FI8-0091**
Cal	The Thorson Co.	7361 Melrose Ave. Los Angeles 46	WE4-1191
Can	Electrodesign	736 Notre Dame St. W. Montreal	UN6-7267
	VAR-LAC-OID CHEMICAL CO.	**116 Broad St. New York 4, NY**	**WH4-0348**
	VARO MFG. CO., INC.	**2201 Walnut St. Garland, Tex**	**BR6-6141**
Cal	J. H. Jordan	Box 90421, Intl. Airport Sta. Los Angeles	RE4-9154
DC	S. P. Nagel	1000 Vermont Ave. NW, Washington	
NY	E. F. Desmond	Box 1157, Scotia	FR7-6288
Tex	K. Keeth	2201 Walnut St. Garland	BR6-6141
Va	J. B. Steed	Box 7035, Arlington 7	KE6-7550
	VEEDER-ROOT, INC.	**70 Sargeant St. Hartford 2, Conn**	**JA7-7201**
Cal	Veeder-Root Inc.	3730 Park Pl. Montrose	CH5-8421
Cal	Milligan-Spika Co.	1485 Bayshore Blvd. San Francisco 24	JU5-1067
Ill	Veeder-Root Inc.	549 W Washington Blvd. Chicago 6	ST2-6283
Mass	Veeder-Root Inc.	Danvers Center, Danvers	SP4-6110
Mo	Veeder-Root Inc.	3305 Washington Blvd. St. Louis 3	JE1-4355
NY	Veeder-Root Inc.	1775 Broadway, New York 19	CI7-2066
Ohio	Veeder-Root Inc.	12417 Cedar Rd. Cleveland 6	ER1-3344
Pa	Veeder-Root Inc.	130 S Easton Rd. Glenside	TU7-0708
Pa	Veeder-Root Inc.	355 Fifth Ave. Pittsburgh 22	GR1-3773
SC	Veeder-Root Inc.	Box 297 Spartanburg Hwy. Greenville	CH4-2971

Tex	Veeder-Root Inc.	3838 Cabana Ln. Dallas 29	FL7-5616
Wash	Fairman B. Lee Co.	941 Central Bldg. Seattle 4	MU2-1456
	VELAN ENGINEERING LTD.	**2125 Ward Ave. St. Laurent, Montreal 9, Que**	**RI8-7925**
NY	Velan Valve Corp.	Beekmantown Rd. Plattsburgh	JO1-3830
NY	Velan Steam Specialties, Inc.	Beekmantown Rd. Plattsburgh	JO1-3830
	VENNER ELECTRONICS, LTD.	**Kingston By-Pass, New Malden, Surrey, Eng**	**MA2442**
Can	Electrodesign	9124 St. Lawrence Blvd. Montreal 11	
Can	Electrodesign	594 Brittany Dr. Ottawa, Ont.	
	VICKERS-ARMSTRONGS (S. MARSTON) LTD.	**Swindon, Wiltshire, Eng**	**ST3241**
	VICKERS, INC. ELECTRIC PRODUCTS DIV. 1815 Locust St. St. Louis 3, Mo		**CE1-5830**
Cal	Vickers, Inc. EPD	3201 Lomita Blvd. Torrance	SP5-2461
DC	Vickers, Inc. EPD	777 14th St. NW, Washington 5	EX3-2650
Ill	Vickers, Inc. EPD	3555 W Peterson Ave. Chicago 45	JU8-2125
Mass	E. F. Hubert Co.	66 Central St. Wellesley 81	CE5-6815
Mich	Vickers, Inc. EPD	14420 Linwood, Detroit 38	TO8-5100
NY	Vickers, Inc. EPD	3901 Main St. Flushing	LE9-1515
Ohio	Vickers, Inc. EPD	3120 Wooster Rd. Cleveland 16	ED3-1355
	VICKERS, INC. DIV. SPERRY-RAND CORP. MARINE & ORDNANCE DEPT.	**Waterbury 20, Conn**	**PL6-3681**
Cal	Vickers, Inc.	2160 E Imperial Hwy. El Segundo	OR8-2509
Cal	Vickers, Inc.	900 N San Antonio Rd. Los Altos	WH8-1081
DC	Vickers, Inc.	14th & New York Ave. Washington 5	EX3-2650
Mich	Vickers, Inc.	14420 Linwood Ave. Detroit 38	DI1-0990
Wash	Vickers, Inc.	623 8th Ave. S. Seattle	MU2-6950
	VICKERY CO.	**610 16th St. Oakland 12, Cal**	**GL1-1160**
Cal	The Vickery Co.	3312 W Vernon Ave. Los Angeles 8	AX1-3100
	VICTOR ADDING MACHINE CO.	**3900 N Rockwell St. Chicago 18, Ill**	**KE9-8210**
	Sales Offices in principal cities and countries		
	VICTOR CHEMICAL WORKS	**155 N Wacker Dr. Chicago 6, Ill**	**DE2-4010**
	VICTOREEN INSTRUMENT CO.	**5806-11 Hough Ave. Cleveland 3, Ohio**	**EN1-6200**
Cal	G. W. Fowler Co.	429 S Western Ave. Los Angeles 5	DU4-7203
Ga	E. G. Holmes & Associates	4969 Roswell Rd. NE, Atlanta 5	BL5-6660
Ill	The Victoreen Instrument Co.	6726 S Ashland Ave. Chicago 36	RE7-4111
Md	C. E. Snow Co.	8216 Wisconsin Ave. Bethesda	OL4-1767
NY	The Victoreen Instrument Co.	18 E 50th St. New York 21	RH4-7648
Tex	Southwest Electronic Ltd.	The Meadows Bldg. Dallas 6	EM3-1671
Wash	Arva	1320 Prospect St. Seattle 9	MA2-0177
Can	Radionics, Ltd.	8230 Mayrand St. Montreal, Que	RE9-5517
For	Terminal Radio International, Ltd.	540 W 17th St. New York 11	CH3-8200
	VICTORY ENGINEERING CORP.	**Box 373, Union, NJ**	**MU8-7150**
Cal	Westron	7407 Melrose Ave. Los Angeles 5	WE3-7276
Colo	E. Kelley	336 E 4th St. Loveland	NO7-1376
Ill	L. W. Beier Co.	6516 W North Ave. Chicago	BE7-2420
Mass	R. Perron & Co.	1870 Centre St. Boston	FA3-1008
Mich	Burcaw-Cowan & Co.	22128 Grand River Ave. Detroit 19	KE3-7700
Minn	H. M. Richardson & Co.	9 E 22nd St. Minneapolis	FE6-4078
Mo	F. C. Somers & Co.	Davidson Bldg. Kansas City 8	GR1-1355
NY	O. F. Masin Co.	1 Wolf's Ln. Pelham	PE8-4510
Ohio	Scott & Steffen	1836 Euclid Ave. Cleveland	TO1-2626
Pa	Technical Representation	220 S Easton Rd. Glenside	TU7-1325
Tex	E. F. Aymond Co.	4312 Maple Ave. Dallas	LA6-5233
Wash	F. H. Haight Co.	2212 Eastlake Ave. Seattle	EA2-1818
	VIENER & SONS, HYMAN	**5300 Hatcher St. Richmond 5, Va**	**MI8-4563**
DC	H. Viener & Sons	Box 1274, Washington	NA8-2024
W Va	H. Viener & Sons	Box 55, Charlestown	233
	VIRUS KG., Dr.	**Bonn, Rosenburgweg 20, Ger**	
	VITRO CHEMICAL CO.	**342 Madison Ave. New York 17, NY**	**YU6-2180**
Cal	Vitro Chemical Co.	2301 Pontius Ave. Los Angeles 64	GR7-8235
	VITRO CORP. OF AMERICA	**261 Madison Ave. New York 36, NY**	**MU2-5700**
Cal	Vitro Corp. of America	2301 Pontius Ave. LA 5	DU5-7535
NJ	Vitro Laboratories	200 Pleasant Valley Way, West Orange	RE1-3400
NY	Vitro Chemical Co.	261 Madison Ave. New York	MU2-5700
NY	Vitro Engineering Co.	7 E 12 St. New York 3	OR7-0600
	VOGEL & CIE, P.	**Veyrier pres Geneve, Switz.**	**36 35 60**
	VOGT MACHINE CO., HENRY	**1000 W Ormsby St. Louisville, Ky**	**ME4-9411**
Cal	H. Vogt Machine Co.	604 Monterey Pass Rd. Monterey Park	CU3-5033
Ill	H. Vogt Co.	972 Marquette Bldg. Chicago 3	FR2-3273
Mo	H. Vogt Co.	6811 Clayton Rd. St. Louis 17	PA6-2288
NJ	H. Vogt Co.	507 Wilson Bldg. Camden 2	WO3-3797
NY	H. Vogt Co.	3110 Maritime Exch. Bldg. New York 4	BO9-3688
Ohio	H. Vogt Co.	710 Williamson Bldg. Cleveland 14	WA1-2002
Tex	H. Vogt Co.	1018 Life of American Bldg. Dallas 1	RI6-9476
	VOKES CANADA DIV. DOUGLAS ENGRG. CO. LTD.	**195 Bridgeland Ave. Toronto 19, Ont**	**RU1-9321**
Can	Vokes Canada Div.	276 Elgin St. Ottawa, Ont	CE2-2988
Can	Vokes Canada Div.	228 Notre Dame Ave. Winnipeg, Man	WH3-6047
Can	Vokes Canada Div.	101 Murray St. Montreal, Que	WE5-4616
Can	Vokes Canada Div.	50 St. Jean, Quebec	LA9-4215
	VOKES GENSPRING LTD.	**Guildford, Surrey, England**	**GU6-2861**
	VOKES LTD.	**Guildford, Surrey, England**	**GU6-2861**

	VOLAND & SONS, INC	**27 Centre Ave. New Rochelle, NY**	**NE6-2914**
	VOLK RADIOCHEMICAL CO.	**5412 N Clark St. Chicago 40, Ill**	**LO1-2227**
Cal	Volk Radiochemical Co.	3030 Sawtelle Blvd. Los Angeles 66	EX1-7147
For	Volk Radiochemical Co.	13 E 40th St. New York 60, NY	
	VULCAN ELECTRIC CO.	**88 Holton St. Danvers, Mass**	**SP4-1730**
Cal	Fenwal, Inc.	111 S Burlington Ave. Los Angeles 57	DU8-3168
Cal	Bellfove Co.	420 Market St. San Francisco 11	YU2-3713
Ga	C. H. Cloer & Associates	3272 Peachtree Rd. NE, Atlanta 5	CE3-0991
Ill	Fenwal, Inc.	6846 W North Ave. Chicago 35	TU9-8811
Mich	H. C. Engelman Co.	27050 Gratiot Ave. Roseville	PR8-5000
Minn	W. B. Odegard Co.	6304 Walker St. Minneapolis 27	WE9-2228
Mo	J. M. Gilbert Co.	131 E 70th St. Kansas City 13	DE3-8830
NY	Vulcan Electric Co.	420 Lexington Ave. New York 17	LE3-0806
Ohio	Handel-Davies Co.	2626 Noble Rd. Cleveland 21	EV3-2600
Pa	F. F. Sahms	419 Twickenham Rd. Glenside	TU4-2569
Wash	J. C. McDougall Co.	520 1st Ave. S. Seattle	MA7067
Wis	C. C. Schroeder & Associates	4101 W Greenfield Ave. Milwaukee	EV3-3070
	VULCAN MFG.	**Box 22, Cincinnati 15, Ohio**	
Cal	The Fulcher Co.	24 California St. San Francisco 4	SU1-6121
Colo	Horblit & Co.	2329 Champa St. Denver	AM6-2691
Ill	R. B. Dost	2645 W Peterson Ave. Chgo. 45	LO1-7456
Mass	C. P. Eldred	625 Exchange Bldg. Boston 9	CA7-0963
Mich	Dyment & Girk, Assoc.	20050 Livernois Ave. Detroit 21	UN2-9188
Minn	H. Turner	3160 France Ave. N. Minneapolis 22	JU8-1669
Mo	Howell Eng. Equip. Co.	4229 Lindell Blvd. St. Louis 8	JE6-1770
NJ	W. J. Weaver & Sons	Sand Brook	FL264
NM	Horblit & Co.	1001 Lafayette Dr. NE, Albuquerque	AM8-7242
NC	W. A. Davis, Jr.	Box 4254, Charlotte 4	FR6-6382
Okla	J. Osborn	Box 4073, Tulsa	RI7-5177
Va	F. D. Johnson	Box 9184, Rosslyn Sta. Arlington 9	JA2-2463
	W-K-M DIV. OF ACF INDUSTRIES	**Box 2117, Houston, Tex**	**CA7-8211**
Cal	W-K-M Division	1901 W 8th St. Los Angeles	
Ill	W-K-M Division	80 E Jackson Blvd. Chicago	
NY	W-K-M Division	45 Rockefeller Plaza, New York City	
Ohio	W-K-M Division	21055 Lorain Rd. Cleveland	
Okla	W-K-M Division	208 Wright Bldg. Annex, Tulsa	
	WADE, COUPLINGS, LTD.	**270 High Rd. Ilford, Essex, Eng**	
	WAGNER ELECTRIC CO.	**6400 Plymouth Ave. St. Louis 14, Mo**	
	WAH CHANG CORP.	**233 Broadway, New York 7, NY**	
	WAKEFIELD INDUSTRIES, INC.	**5121 W Grove St. Skokie, Ill**	**OR3-8700**
Cal	Wallace & Wallace	1206 Maple Ave. Los Angeles 15	RI7-0401
Cal	White & Co.	788 Mayview Ave. Palo Alto	DA1-3350
Md	S. S. Lee Associates, Inc.	2521 Emralls Ave. Wheaton	LO5-3066
Mass	The H. J. Schaft Co.	615 Washington St. Newtonville	LA7-5304
NY	M. J. Seavy & Sons	30 Church St. New York	CO7-8025
NC	S. S. Lee Associates, Inc.	Box 906, Winston-Salem	ST8-0431
Pa	The Satullo Co.	992 Perry Hwy. Pittsburgh 37	WE1-5200
Tenn	The Ellison Co.	632 Healey Bldg. Atlanta, Ga	JA5-0238
Tex	R. M. Bubel	10131 Goodyear Ave. Dallas	FL2-5826
Wash	A. H. Martilla	110 Adm Bldg. Seattle	PA5-9810
	WALKIRT CO	**141 W Hazel St. Englewood 3, Cal**	
Cal	Westron Sales & Engineering	7407 Melrose, Los Angeles 46	WE3-7276
Colo	Vinson Associates	3600 S Lincoln, Englewood	SU9-2851
Fla	E. C. Raymund & Associates	Box 8215, Madeira Beach	WA1-9735
Ill	D. Hausten & Co.	607 E Willow Ave. Wheaton	MO8-7312
Md	F. D. Marcy Associates	1180 Raymond Blvd. Newark	MA3-2365
Mass	W. Richter Corp.	645 E Washington St. Hanson	TA6-2821
Mich	W. Spenser Co.	20144 Livernois, Detroit 21	YO9-1332
Mo	Design & Sales Engineering Co.	7403 Forsyth Blvd. St. Louis 5	PA1-6403
NY	W. Richter Corp.	107 Delores Terrace S. North Syracuse	GL4-1051
NY	D. Sonkin	Lucas Bldg. Mt. Vernon	MO6-9809
Tex	Airep Engineering Co.	Box 9555, Dallas 14	JA4-3800
	WALL COLMONOY CORP. STAINLESS PROCESSING DIV.	**19344 John R. St. Detroit 3, Mich**	**TW3-3800**
Cal	Wall Colmonoy Corp.	1565 Bluff Rd. Montebello	
Ohio	Wall Colmonoy Corp.	5221 Webster St. Dayton 24	
Pa	Wall Colmonoy Corp.	Box 205, Morrisville	
	WALL TUBE & METAL PRODUCTS CO.	**Box 330, Newport, Tenn**	**HE2391**
	WALLACE & TIERNAN, INC.	**25 Main St. Belleville 9, NJ**	**PL9-8000**
Cal	Wallace & Tiernan, Inc.	1713 S California Ave. Monrovia	EL8-1638
Cal	Wallace & Tiernan, Inc.	2180 Palou Ave. San Francisco 24	MI7-7165
Colo	Wallace & Tiernan, Inc.	3500 E Colfax Ave. Denver 6	EA2-5486
Ill	Wallace & Tiernan, Inc.	1239 W Washington Blvd. Chicago 7	CA6-3220
Mich	Wallace & Tiernan, Inc.	13815 W 8 Mile Rd. Detroit 35	UN4-9060
Mo	Wallace & Tiernan, Inc.	2319 Hampton Ave. St. Louis 10	MI7-3215
Mo	Wallace & Tiernan, Inc.	2800 Cherry St. Kansas City 8	VA1-5438
NY	Wallace & Tiernan, Inc.	3407 Delaware Ave. Kenmore 17	DE3044
Ohio	Wallace & Tiernan, Inc.	4209 W 150th St. Cleveland 35	CL2-5554
Tex	Wallace & Tiernan, Inc.	5610 Dyer St. Dallas 6	EM8-6371
Wash	Wallace & Tiernan, Inc.	2916 Western Ave. Seattle 1	MA2-2546
Can	Wallace & Tiernan, Inc.	925 Warden Ave. Scarborough, Ont	PL5-2288
	WALLIN OPTICAL SYSTEMS INC.	**18670 Ventura Blvd. Tarzana, Cal**	
	WALLINGFORD STEEL CO.	**80 Valley St. Wallingford, Conn**	**CO9-3361**
Cal	Wallingford Steel Co.	2400-A W Magnolia Blvd. Burbank	VI9-5468
Ill	C. G. Stevens Co.	29 S Jefferson St. Chicago 6	FR2-7060
Mass	Wallingford Steel Co.	20 Providence St. Boston 16	HA6-7558

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Mich	Wallingford Steel Co.	16115 Myers Rd. Detroit 35	DI1-1441
NY	Wallingford Steel Co.	7-11 E 44th St. New York	MU7-8647
NY	Brace-Mueller-Huntley, Inc.	1807 Elmwood Ave. Buffalo 7	VI8700
NY	Brace-Mueller-Huntley, Inc.	Box 104, Rochester 1	COE-6383
NY	Brace-Mueller-Huntley, Inc.	Box 1340, Syracuse 1	HO3-3341
Wis	F. W. Ladky Associates, Inc.	4604 N Wilson Dr. Milwaukee	WO2-2942
	WALSCO ELECTRONICS MFG. CO. DIV. TEXTRON, INC.	**400 S Wymon St. Rockford, Ill**	**WO8-9661**
Cal	G C Electronics	3225 Exposition, Los Angeles 18	AX3-7201
	WALSH ASSOCIATES, CHARLES	**Box 244, Deerfield, Ill**	**ID3-7800**
Tenn	C. Walsh Associates	Box 541, Oak Ridge	
	WALTHAM ELECTRONICS CORP.	**751 Main St. Waltham, Mass**	**TW4-7810**
Cal	R. W. Thompson Associates	814 N San Antonio Rd. Palo Alto	
Colo	Hyde Electronics Corp.	888 S Lipan St. Denver	
Fla	Scientific Sales Eng. Corp.	203 Lucerne Circle N, Orlando	
Md	Engineering Associates	2125 Maryland Ave. Baltimore	
NY	J. Washington Associates	791 Blossom Ave. Rochester	
	WALTHAM PRECISION INSTRUMENT CO.	**221 Crescent St. Waltham 54, Mass**	**TW3-4000**
Cal	R. C. Dudek & Co.	407 N Maple Dr. Beverly Hills	BR2-8097
Cal	M. H. D. Research, Inc.	1571 Placentia Ave. Newport Beach	MI6-1618
Colo	Landes, Zachary & Peterson Co.	601 S Jason St. Denver 23	SH4-1311
Fla	W. F. Hemminger Co.	624 NW 79th St. Miami	FL2-0300
Fla	R. F. Willett	1837 Oak Lake Dr. Clearwater	
Kan	Associated Industries, Inc.	455 S Washington St. Wichita	HO4-0391
Pa	Emlen-Peterson Co.	King of Prussia Rd. Radnor	MU8-0151
Tex	Wyborny Sales Co.	166 Merchandise Mart Bldg. Dallas	RI8-6139
Wash	Associated Industries, Inc.	1752 Rainier Ave. Seattle	EA5-4400
	WANG LABORATORIES	**12 Huron Dr. Natick, Mass**	**OL3-3910**
	WARD LEONARD ELECTRIC CO.	**115 MacQuesten Pkwy. S, Mt. Vernon, NY**	**MO4-1000**
Cal	Ward Leonard Electric Co.	1605 E Olympic Blvd. Los Angeles 21	MA9-3595
Conn	Ward Leonard Electric Co.	37 Webster St. Hartford 6	JA7-1837
Ill	Ward Leonard Electric Co.	3100 N Cicero Ave. Chicago 41	MU5-8456
Mass	Ward Leonard Electric Co.	67 Trowbridge St. Arlington 74	MI3-0870
Mo	Ward Leonard Electric Co.	4233 Chouteau Ave. St. Louis 10	JE5-6502
NY	Ward Leonard Electric Co.	1650 E Main St, Rochester 9	HU2-2826
Ohio	Martin-Rettger, Inc.	11955 Shaker Blvd. Cleveland 20	SW1-8787
Pa	Ward Leonard Electric Co.	7852 Montgomery Ave. Phila 17	CA4-0400
Pa	Ward Leonard Electric Co.	929 Park Ave. Pittsburgh 34	LO1-6405
Tenn	J. G. Pettyjohn Co.	Box 395, Knoxville	3-0111
Tex	P. J. Scanlon Co.	2608 Inwood Rd. Dallas 35	FL1-9991
Wash	Northwestern Agencies Inc.	4130 1st Ave. Seattle 4	MA3-8882
	WARNER ELECTRIC BRAKE & CLUTCH CO.	**Beloit, Wis**	**DU9-2211**
Cal	T. C. Alford	2805 Foothill Blvd. Pasadena	MU1-7145
Conn	J. Cosgrove	7 Arlington Rd. Windsor Locks	NA3-0190
Ga	R. W. Dollar	254 E Paces Ferry Rd. NE, Atlanta 5	CE3-2032
Ill	Warner Electric Brake & Clutch Co.	1915 N Harlem Ave. Chicago	TU9-2161
Md	J. J. Moran	928 Kevin Rd. Baltimore 29	WI7-1587
Mass	J. W. Shea	571 High St. Westwood	DA6-7100
Mich	Warner Electric Brake & Clutch Co.	15756 Wyoming Ave. Detroit 38	UN1-7389
NJ	Warner Electric Brake & Clutch Co.	36 Main St. Madison	FR7-4800
NY	Ross Equipment Co. Inc.	291 Cleveland Dr. Buffalo 15	AT7720
Ohio	W. R. Mapes	Box 37, S Euclid 21	EV2-2911
Tex	G. J. Fix Co.	1901 S Good-Latimer Expwy. Dallas 10	RI8-2218
Wis	J. Erbach	4003 W Capitol Dr. Milwaukee 16	UP1-8022
	WARREN CORP.	**2901 Brighton Rd. Pittsburgh 12, Pa**	**PO4-7757**
DC	Warren Corp.	6907 Edgerton Ln. Springfield, Va	FL4-0910
Ga	Warren Corp.	1920 Cheshire Bridge Rd. Atlanta 9	TR2-6771
Ill	Warren Corp.	71 E Wacker Dr. Chicago	FI6-7100
Mass	Warren Corp.	Publicover, RFD Pantry Rd. Sudbury	HI3-2438
Minn	Warren Corp.	3721 - 50th Ave. N, Minneapolis	
Mo	Warren Corp.	4915 Argyle Ave. St. Louis 8	
Ohio	Warren Corp.	1360 W 9th St. Cleveland 13	MA1-8227
Okla	Warren Corp.	Box 72, Tulsa	LU5-1234
Tex	Warren Corp.	Mercantile Continental Bldg. Dallas	RI1-3519
	WARREN PUMPS, INC.	**Warren, Mass**	**HE5-7711**
Mass	Warren Pumps, Inc.	80 Federal St. Boston 10	HA6-1433
NY	Warren Pumps, Inc.	30 Church St. New York 7	CO7-0517
	WATER ASSOCIATES	**45 Franklin St. Framingham, Mass**	**TR7-6528**
	WATERBURY FARREL FOUNDRY & MACHINE CO. DIV. TEXTRON, INC.	**Box 70, Waterbury 20, Conn**	**PL6-3621**
Cal	Waterbury Farrel Fndry & Mach Co.	4757 E. Slauson Ave. Maywood	LU1-4614
Ill	Waterbury Farrel Fndry & Mach Co.	6643 W North Ave. Oak Park	EU6-5442
Mich	Waterbury Farrel Fndry & Mach Co.	3592 Lee Rd. Cleveland, Ohio	WY1-5140
NJ	Waterbury Farrel Fndry & Mach Co.	44 Main St. Millburn	DR6-2320
NM	Waterbury Farrel Fndry & Mach Co.	4757 E Slauson Ave. Maywood, Cal	LU1-4614
NY	Waterbury Farrel Fndry & Mach Co.	44 Main St. Millburn, NJ	DR6-2320
Ohio	Waterbury Farrel Fndry & Mach Co.	3592 Lee Rd. Cleveland	WY1-5140
Pa	Waterbury Farrel Fndry & Mach Co.	44 Main St. Millburn, NJ	DR6-2320
Wash	Waterbury Farrel Fndry & Mach Co.	4757 E Slauson Ave. Maywood, Cal	LU1-4614
	WATERMAN PRODUCTS CO. INC.	**2445-63 Emerald St. Phila 25, Pa**	
Ala	R. Attaway Co.	2315 Bob Wallace Ave. SW, Huntsville	534-2811
Cal	Perlmuth Electronic Assoc	5057 W Washington Blvd. Los Angeles 16	WE1-1041
Colo	McLoud & Raymond Co.	5403 E Evans Ave. Denver 22	SK6-1529
Ill	R. J. Higgins Co.	10105 S Western Ave. Chicago 43	BE3-7388
Minn	Scott Electronic Sales	6500 Xerxes Ave. So. Minneapolis 23	WA6-3919
NY	Simberkoff Sales Co.	68 Hudson St. Hoboken N.J.	OL6-5211
Ohio	Thomco Electronic Co.	Box 181, N Dayton Sta. Dayton 4	BE3-3551
Tex	M. F. Klicpera Co.	Box 3113, Houston 1	JA2-8459
Wash	N. R. Schultz Co.	4227 Airport Way, Seattle 8	MA4-8650
Can	Aviation Electric, Ltd.	200 Laurentien Blvd. Montreal 9, Que.	RI4-2811
For	Terminal Radio Intl. Ltd.	135 Liberty St. New York 6	WO4-3373
	WATERS MANUFACTURING, INC	**Boston Post Rd. Wayland, Mass**	**EL8-2777**
Cal	J. T. Hill Co.	420 S Pine St. San Gabriel	AT7-9633
Fla	W. B. Wimberly Co.	532 S Fort Harrison Ave. Clearwater	JU4-6618
Ill	L. A. Chambers Co.	5906 W North Ave. Chicago	TU9-4884
Mass	Drew Associates, Inc.	Box 467, Bedford	CR4-7232
Minn	F. Peterson Co.	2431 Hennepin Ave. Minneapolis	FR7-3025
Mo	Koenig/Myers Associates	4538 Main St. Kansas City 11	JE1-7221
NJ	Gawler-Knoop Co.	178 Eagle Rock Ave. Roseland	CA6-4545
NJ	Simberkoff Sales Co.	68 Hudson St. Hoboken	OL6-5211
NY	Gawler-Knoop Co.	178 Eagle Rock Ave. Roseland, NJ	CA6-4545
NY	Simberkoff Sales Co.	68 Hudson St. Hoboken, NJ	OL6-5211
Tex	Lawrence Sales Co.	Box 13026, Dallas	FL2-7484
Wash	Farwest Agencies	209 1st Ave. S, Seattle 4	MA4-5656
	WATLOW ELECTRIC MFG. CO.	**1376 Ferguson Ave. St. Louis 14, Mo**	**PA1-7867**
Cal	Western Control Equipment Co.	14615 Ventura Blvd. Sherman Oaks	ST9-2300
Ill	Kelburn Engrg. Co.	3136 S Clarence Ave. Berwyn	ST9-5485
Mass	C. H. Ribble Co.	250 Boylston St. Boston 16	CO7-3038
Mich	W. C. Fay	3049 E Grand Blvd. Detroit	TR2-5354
Minn	G. C. May Co.	3651 Cedar Ave. Minneapolis 7	PA9-9347
NJ	C. H. Ribble Co.	31 Di Carolis Ct. Hackensack	DI2-2602
Ohio	Thal Mor Associates	219 Washington St. Dayton 2	BA2-9661
Pa	Industrial Elec. Sales Co.	Box 4003, Philadelphia 18	GE8-9028
Tex	Gay Sales Co. Inc.	420 Sul Ross St. Houston 19	JA9-3479
Wash	F. P. Colbert & Assoc.	Box 3723, Terminal Anx. Seattle 24	EA5-7355
	WATSON LTD., H. T.	**Croft St. Widnes, Lanc. Eng**	**Widnes 4**
	WATSON MFG. CO., INC.	**4800 Taylor St. Jamestown, NY**	**71191**
	WATSON-MARLOW AIR PUMP CO.	**Marlow Bocks, Eng**	**MAT257**
NY	Schueler & Co.	75 Cliff St. New York 38	BE3-2813
	WAUKEE ENGINEERING CO. INC.	**5138 N 35th St. Milwaukee 9, Wis**	**HI4-3190**
Cal	Pacific Scientific Co.	6280 Chalet Dr. Bell Gardens	SP3-2020
Ill	S. A. Wright Co.	5875 N Lincoln Ave. Chicago 45	LO1-6119
Mass	G. A. Chutter	15 Exchange Pl. Jersey City 2, NJ	DE2-1700
Mich	H. E. Ardahl	4448 Bishop Rd. Detroit 24	TU5-6547
NY	G. A. Chutter	15 Exchange Pl. Jersey City 2, NJ	DE2-1700
Ohio	L. F. Grunkemeyer	1344 Meier Ave. Cincinnati 8	EA1-1157
	WAUKESHA FOUNDRY CO.	**Lincoln Ave. Waukesha, Wis**	**LI2-6657**
Cal	Brenner Co.	35 N Raymond Ave. Pasadena	MU1-8322
Colo	D. W. Jones, Jr.	1321 Bannock St. Denver	KE4-4911
Mass	Lothrop Stainless Steel, Inc.	138 Leland St. Framingham	TR3-3330
Mo	Clancey Co.	3527 Broadway, Kansas City	WE1-3090
NJ	Waukesha Foundry Co.	657 Bloomfield Ave. Bloomfield	PI3-1014
	WAYNE KERR CORP.	**Box 801, Philadelphia 5, Pa**	**LO8-6820**
Cal	McCarthy Associates	1055 E Walnut, Pasadena	MU1-7400
Colo	Hytronic Measurements	1295 S Bannock St. Denver 23	PE3-3701
Ga	E. G. Holmes & Associates	4969 Roswell Rd. Atlanta	BL5-6660
Ill	Bard Associates	328 Selbourne Rd. Riverside	HI7-7555
Mass	Burlingame Associates	974 Main St. Waltham	TW4-1955
Minn	Engineering Products Associates	1821 University Ave. St. Paul 4	MI6-3443
Mo	Lee Mark Associates	Box 8467, Kansas City 14	NI2-3313
NY	Burlingame Associates	510 S Fulton Ave. Mt. Vernon	MO4-7530
Ohio	Tiby Co.	2245 Warrensville Center Rd. Cleveland 18	ER1-5335
Tex	Airep Engineering Co.	Box 9555, Dallas 14	TA4-3800
	WEATHERHEAD CO.	**128 W Washington Blvd. Fort Wayne, Ind**	**E-8055**
	WEBBER MFG. CO., INC.	**Box 217, Indianapolis 6, Ind**	**ME3-1378**
	WEKSLER INSTRUMENTS CORP.	**195 E Merrick Rd. Freeport, NY**	**MA3-6100**
Cal	California Hydronics Corp.	910 Howard St. San Francisco 3	EX7-2336
Colo	L. A. Christopher Co.	1751 Franklin St. Denver	KE4-1338
Ga	Thermal Engineering Co.	314 Buckhead Ave. NE, Atlanta 3	CE7-8664
Ill	Garden City Instruments, Inc.	931 Sherman Ave. Evanston	BR3-4630
La	Creole Engineering Co.	2617 Banks St. New Orleans	JA5-0862
Mass	Carr Bros. Co.	258 Park Sq. Bldg. Boston 16	LI2-1326
Mo	Mid-States Supply Co.	112 W 18th St. Kansas City	VI4290
NJ	F. D. Riggio Co. Inc.	31 State Hwy 17, Rutherford	WE9-3450
Ohio	C. L. Carll Co.	3537 Lee Rd. Cleveland 20	LO1-7400
Pa	G. F. Bertrand Co.	101 N 33rd St. Philadelphia 4	BA2-8015
Tex	J. R. Dowdell & Co.	3160 Irving Blvd. Dallas 7	FL7-5631
Wash	Branom & Leeland Instr. Co.	2137 2nd Ave. Seattle 1	MA7320
	WELCH MFG. CO., W.M.	**1515 Sedgwick St. Chicago 10, Ill**	**MI2-2000**
	WELDMATIC DIV. UNITEK CORP	**950 Royal Oaks Dr. Monrovia, Cal.**	**EL9-8361**
Cal	Tech-Ser, Inc.	3540 Wilshire Blvd. Los Angeles	DU5-1765
Cal	Tech-Ser, Inc.	640 Donohoe St. East Palo Alto	DA5-3251
Colo	Vinson Associates	3600 S Lincoln, Englewood	SU9-2851
Fla	W. A. Brown & Associates	201 Capron Rd. Indian River City	AM7-0411
Ill	Hugh Marsland & Co.	6699 Lincoln Ave. Chicago	OR6-1100
Mass	Technical Instruments, Inc.	90 Main St. Reading	RE2-3920
NJ	L. A. Garten & Associates	375 Passaic Ave. Caldwell	CA6-7800
NY	Advance Components	119 Luther Ave. Liverpool	GR2-7886
Pa	L. A. Garten & Associates	730 Washington Ln. Jenkintown	WA7-1200
Tex	Norvell Associates	3603 Lemmon Ave. Dallas	LA5-7861
Wash	Stanley Enterprises	127 River St. Seattle	PA3-3320
	WELTRONIC CO.	**19500 W 8 Mile Rd. Detroit 41, Mich**	
Cal	D. Morgan	7870 S Western Ave. Los Angeles	PL8-1520
Ill	A. L. Hissong	141 Rex Blvd. Elmhurst	TE4-5438

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
Ill	I. Vroman	1134 W 69th St. Chicago	HU3-9465
Mo	J. Heater	1015 Maeville Dr. Kirkwood 22	YO6-8636
NY	G. Heck	2088 Berg Rd. Buffalo, NY	FA2020
Ohio	H. Feldhouse	2903 Merriweather, Warren	EX9-3135
Ohio	W. Kahkola	89 Waller, Vandalia	TW8-4771
Pa	T. Edwards	10157 Ferndale St. Philadelphia 16	HO4-3322
Can	W. Tregaskiss	3244 Curry Ave, Windsor, Ont.	TO9-6387
	WEST INSTRUMENT CORP.	**4363 W Montrose Ave. Chicago 41, Ill**	**AV6-1087**
Cal	Instrument Laboratory	1836 W Florence Ave. Los Angeles	PL2-4104
Ill	Warner Instrument & Sales Co.	6548 W Higgins Ave. Chicago	NE1-6778
Ind	Engineering Specialties	8115 Camargo Rd. Cincinnati, Ohio	LO1-6598
Ind	R. Welch Co.	6336 Columbia Ave. Hammond	WE2-4474
Iowa	J. H. Laas Co.	611 Kahl Bldg. Davenport	DA3-7014
Mass	Gibson Engineering Co.	1018 Commonwealth Ave. Boston 15	AS7-5074
NY	Niagara Electric Sales Co.	505 Delaware Ave. Buffalo 2	SU4000
NY	N. Bragar Co. Inc.	1060 Broad St. Newark 2, NJ	MA3-6554
Ohio	Instrument Service & Equipment	3519 W 117th St. Cleveland 11	OR1-4102
Pa	Gamble Brothers	571 Fairview St. Riverside, NJ	HO1-4068
Pa	E. E. Whitaker & Son	822 Wood St. Pittsburgh 21	FR1-6220
Tex	Esch & Associates, Inc.	Box 9361, Houston 11	WA8-3557
	WESTERN GEAR CORP	**Box 182, Lynwood, Cal**	**NE6-0911**
Cal	Western Gear Corp.	Box 126, Belmont	LY3-7611
DC	Western Gear Corp.	830 Washington Bldg. Washington 5	ST3-3948
Ill	Western Gear Corp.	122 S Michigan Ave. Chicago 3	WA2-3275
NY	Western Gear Corp.	500 5th Ave. New York 36	OX5-5925
Ohio	Western Gear Corp.	3109 Mayfield Rd. Cleveland 12	YE2-0488
	WESTERN GOLD & PLATINUM CO.	**525 Harbor Blvd. Belmont, Cal**	**LY3-3121**
	WESTERN PRECIPITATION DIV. JOY MFG. CO.	**1000 W 9th St. LA 54, Cal**	**MA7-4771**
Cal	Western Precipitation Div.	582 Market St. San Francisco 4	EX2-0554
DC	Joy Mfg. Co.	1741 K St. NW, Washington 6	EX3-6200
Ga	Western Precipitation Div.	3252 Peachtree Rd. Atlanta 5	CE3-6255
Ill	Western Precipitation Div.	N LaSalle St. Chicago 2	AN3-4433
Mass	Joy Mfg. Co.	2nd Ave. Burlington	BR2-9500
NY	Western Precipitation Div.	100 Church St. New York 7	CO7-6545
Pa	Western Precipitation Div.	3021 Banksville Rd. Pittsburgh 16	LO3-4000
Tenn	A. G. Brown Co.	440 Frazier Ave. Chattanooga	AM7-8174
Tenn	Joy Mfg. Co.	108 W Main Ave. Knoxville 2	2-4121
Utah	Western Precipitation Div.	998 S 6th St. Salt Lake City 10	DA2-0481
Wash	Western Precipitation Div.	2411 Western Ave. Seattle 4	MU2-2266
	WESTERN RADIATION LAB.	**1107 W 24 St. Los Angeles 7, Cal**	**RI7-8355**
	WESTERN SWITCHBOARD CO.	**474 Bryant St. San Fran 7, Cal**	**EX2-5535**
Cal	E. S. Condon Co.	3450 Wilshire Blvd. Los Angeles 5	DU1-3951
	WESTINGHOUSE ELECTRIC CORP.	**Box 2278, Pittsburgh 30, Pa.**	**EX1-2800**
	WESTINGHOUSE ELEC. CORP. ATOMIC EQUIPMENT DIV.	**Cheswick, Pa**	**EM2-4400**
	WESTINGHOUSE ELEC. CORP. ATOMIC FUEL DEPT.	**Cheswick, Pa**	**EM2-4400**
	WESTINGHOUSE ELEC. CORP. ATOMIC POWER DEPT.	**Forest Hills, Pa**	**EM2-4400**
	WESTINGHOUSE ELECTRIC CORP. ELECTRONIC TUBE DIV.	**Box 284, Elmira, NY**	**RE9-3611**
Cal	Westinghouse Electric Corp.	600 St. Paul Ave. Los Angeles 17	HU2-9600
Colo	Westinghouse Electric Corp.	710 E Louisiana Ave. Denver	PE3-5528
DC	Westinghouse Electric Corp.	1625 K St. NW, Washington	NA8-5543
Haw	Westinghouse Electric Corp.	Box 188, Kailua	
Ill	Westinghouse Electric Corp.	2211 W Pershing Rd. Chicago 9	WH4-3880
Mass	Westinghouse Electric Corp.	10 High St. Boston	LI2-0600
Mich	Westinghouse Electric Corp.	Box 502, Detroit 32	TR2-0710
NJ	Westinghouse Electric Corp.	MacArthur Ave. Bloomfield	HU4-3000
Tex	Westinghouse Electric Corp.	500 S Central Expwy. Dallas	RI2-4450
Wash	Westinghouse Electric Corp.	1209 Poplar Pl. Seattle 44	EA3-8330
For	Westinghouse Electric Int'l Corp.	40 Wall St, New York, NY	WH3-4321
	WESTINGHOUSE ELEC. CORP. INSTRUMENT DEPT.	**Newark, NJ**	**HU4-3000**
	WESTINGHOUSE ELEC. CORP. MATERIALS MFG.	**Blairsville, Pa**	**BL1400**
	WESTINGHOUSE ELEC. CORP. PWR. CONTROL & COMM. DEPT.	**East Pittsburgh, Pa**	**EX1-2800**
	WESTINGHOUSE ELEC. CORP. STEAM DIV.	**Lester, Pa.**	**SA9-8565**
	WESTINGHOUSE ELEC. CORP. STURTEVANT DIV.	**Boston 36, Mass**	**HY3-3700**
	WESTINGHOUSE TESTING REACTOR	**Box 1075, Pittsburgh 30, Pa.**	**722-3011**
	WESTINGHOUSE ELECTRIC CORP. X-RAY DIV.	**2519 Wilkens Ave. Baltimore 3, Md**	**CE3-2300**
Cal	Westinghouse X-Ray	5815 Peladeau St. Emeryville 8	OL8-5500
Cal	Westinghouse X-Ray	600 St. Paul Ave. Los Angeles 17	MA6-3881
DC	Westinghouse X-Ray	4829 Fairmount Ave. Washington 14	OL6-8110
Ga	Westinghouse X-Ray	1299 Northside Dr. NW, Atlanta 2	TR4-1641
Ill	Westinghouse X-Ray	2211 W Pershing Rd. Chicago 9	FR6-2346
La	Westinghouse X-Ray	400 N Carrollton Ave. New Orleans 19	HU6-5311
Mass	Westinghouse X-Ray	270 Commonwealth Ave. Boston 16	CO5-3949
Mich	Westinghouse X-Ray	5751 Trumbull Ave. Detroit 31	TR2-7010
NY	Westinghouse X-Ray	512 S Fulton Ave. Mt. Vernon	TE5-6050
Pa	Westinghouse X-Ray	3001 Walnut St. Philadelphia 4	EV2-1200
Pa	Westinghouse X-Ray	445 Melwood Ave. Pittsburgh 13	MA1-2141
Wash	Westinghouse X-Ray	1416 Olive Way, Seattle 22	EA4-6750
	WESTLAKE PLASTICS CO.	**W Lenni Rd. Lenni Mills, Pa**	**GL9-1000**

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
	WESTRONICS INC.	**3605 McCart, Fort Worth, Tex**	**WA3-8211**
Cal	Cerruti & Associates	Box 21, Redwood City	EM9-3354
Cal	R. J. Hudson Co.	5248 Van Nuys Blvd. Van Nuys	ST8-7188
Fla	Col-Ins-Co., Inc.	5788 Precision Dr. Orlando	CH1-1501
Ind	Pinder Instrument Co.	5305 Hohman Ave. Hammond	WE1-4150
NM	Brooks, Feeger & Associates	5510 Domingo Rd. NE, Albuquerque	AM8-1734
NY	Carse Electric Corp.	1044 Broadway, Albany	HO2-5364
NY	The Creek Corp.	Lumber Rd, Roslyn	MA1-7410
Ohio	Van Hala Industrial Co.	Box 2602, Lakewood Br. Cleveland	LA1-6283
Pa	D. Y. Daily & Co.	621 W Rolling Rd. Springfield	KI8-1121
Tex	Pantech Engineering Co.	3302 Mercer St. Houston	JA6-4623
Utah	Brooks, Feeger & Associates	258 Rio Grande, Salt Lake City	EL9-2427
Can	Radionics Limited	8230 Mayrand St. Montreal 9	RE3-3637
	WHEELABRATOR CORP.	**1483 S Byrkit St. Mishawaka, Ind**	**BL5-2141**
Ala	W. P. Burdakin	8436 1st Ave. N, Birmingham	VE6-6236
Ill	R. L. Culhane	808 Cambridge, Elmhurst	TE4-7072
Mich	L. B. Nelson	854 Westbourne Dr. Birmingham	MI7-0876
NY	J. Phelan	53 Lenox Terr. West Orange NJ	RE1-2910
Ohio	F. L. Herbison	7002 Ohio Ave. Cincinnati 36	TW1-8477
Pa	C. A. Hoffman	78 Williams Ln. Hatboro	OS5-4254
Pa	D. Lindsay	383 Barclay Ave. Forest Hill	EL1-2283
Utah	T. M. Stanger	1850 S 21st E, Salt Lake City	IN6-5018
	WHEELER ELECTRONIC CORP.	**150 E Aurora St. Waterbury 20, Conn.**	**PL4-5191**
Cal	Sperry Gyroscope Co.	2200 E Imperial Hwy, El Segundo	
DC	W. F. Drake	1832 M St. NW, Washington	
	WHEELER MFG. CO., C. H.	**1850 Sedgley Ave. Philadelphia 32, Pa**	**BA8-6500**
Cal	Maydwell & Hartzell, Inc.	870 Tennessee St. San Francisco 7	AT8-6900
Colo	H. J. Glass & Assoc.	263 Detroit St. Denver	DE3-8151
Ill	C. H. Wheeler Mfg. Co.	23 W Calendar Ave. La Grange	FL2-2003
Ill	Faville-LeVally Corp.	222 W Adams St. Chicago	CE6-8860
Kan	The Healer Co.	203 Muntzel-Keach Bldg. Mission	RA2-6464
La	Cutler Equipment Co.	1900 Veterans Memorial Hwy, Metairie	VE4-0681
NY	C. H. Wheeler Mfg. Co.	285 Madison Ave. New York 17	LE2-2692
NC	T. C. Heyward & Co.	518 E Morehead St. Charlotte	FR7-2678
Ore	Bumstead-Woolford Co.	421 SW 6th Ave. Portland	CA8-6686
Tex	Alliger & Sears	2203 Fannin St. Houston	CA4-6933
Va	Patterson & Sperry Co. Inc.	409 Madison Bldg. Arlington 9	JA4-2493
Wash	Bumstead-Woolford Co.	1411 4th Ave. Seattle	MA3-4915
	WHEELOCK SIGNALS, INC.	**273 Beechcroft Ave. Long Beach, NJ**	**CA2-6890**
Cal	Bellfove Co.	420 Market St. San Francisco	YU2-3713
Cal	Rollins Electric Co.	804 S Atlantic Blvd, Monterey Park	CU3-1209
Ill	E. C. Baumann Co.	2447 W Belmont Ave. Chicago 18	WE5-9440
Ind	Wright Engineering Co.	4241 Melbourne Rd. Indianapolis 44	WA3-8888
Md	Durling Electric Co.	301 E 25th St. Baltimore 18	HO7-5560
Mass	D. A. Healey	610 Atlantic Ave. Boston 10	LI9-9214
Minn	Northern States Sales Co.	1400 Park Ave. Minneapolis	FE6-4906
Mo	Koenig-Myers Associates	4538 Main St. Kansas City 11	JE1-7221
NY	B. R. Schillinger	75 West St. New York	BO9-1994
Ohio	Baerbalck & Associates	7710 Reading Rd. Cincinnati 37	PO1-1654
Tex	M. F. Klicpera Co.	4210 S MacGregor Way, Houston 21	JA2-8450
	WHITE ENGINEERING CORP., J. G.	**80 Broad St. New York 4, NY**	
	WHITE INDUSTRIAL DIV., S. S.	**10 E 40 St. New York 16, NY**	**MU3-3015**
Cal	Weightman & Associates	4029 W Burbank Blvd. Burbank	VI9-2435
Cal	Weightman & Associates	1436 El Camino Real, Menlo Park	DA6-3797
Fla	Vanguard Associates, Inc.	1312 Palm Ave. Melbourne	PA3-3074
Ill	Maher Engineering Co.	4335 W Peterson Ave. Chicago 30	PE6-8747
	WHITING CORP.	**157 & Lathrop Sts. Harvey, Ill**	**ED1-4000**
	WHITLOCK MFG. CO.	**97 South St. West Hartford, Conn**	**JA2-4293**
Ill	The Whitlock Manufacturing Co.	709 Garfield St. Oak Park	AU7-6239
Mass	The Whitlock Manufacturing Co.	6 Beacon St. Boston 8	CA7-8680
NY	The Whitlock Manufacturing Co.	1965 Sheridan Dr. Buffalo 23	BE1450
NY	The Whitlock Manufacturing Co.	114 Liberty St. New York 6	CO7-8217
Pa	The Whitlock Manufacturing Co.	1007 Baltimore Ave. E Lansdowne	SH9-1688
	WHITTAKER CONTROLS DIV. TELECOMPUTING CORP.	**915 N Citrus LA, Cal**	**HO4-0181**
Ala	Whittaker Controls	2700 S Memorial Pkwy, Huntsville	JE9-7436
Ga	Whittaker Controls	3272 Peachtree Rd. NE, Atlanta	CE3-5201
Kan	Whittaker Controls	6427 Kellogg St. Wichita 7	MU2-0332
NY	Whittaker Controls	600 Old Country Rd. Garden City	PI1-4440
Ohio	Whittaker Controls	121 N Ludlow St. Dayton	BA3-5595
Wash	Whittaker Controls	630 Riverside Rd. Renton	BA6-0650
	WHITTAKER HALL & CO. (1929) LTD.	**Redcliffe, Manchester, Eng**	**RA2421**
Eng	Whittaker Hall & Co. Ltd.	119 Victoria St. Westmin. London SW1	VI2612-3
Eng	Whittaker Hall & Co. Ltd.	Water St. Liverpool 3	CE9626
Eng	Whittaker Hall & Co. Ltd.	Exchange Bldgs. Birmingham	MI2257
Scot	Whittaker Hall Co. Ltd.	Dalziel Dr. Glasgow, S1	BB2597
	WIEGAND CO., EDWIN L.	**7500 Thomas Blvd. Pittsburgh 8, Pa**	
Cal	Montgomery Bros.	1122 Howard St. San Francisco	UN1-3537
Ga	Applebee-Church Inc.	1389 Peachtree St. Atlanta	TR5-7244
Ill	F. I. Tourtelot Co.	407 S Dearborn St. Chicago	HA7-5484
Mass	L. C. Pelkus & Co., Inc.	688 Atlantic Ave. Boston 11	LI9-1941
NJ	R. L. Faber & Associates, Inc.	1246 Broad St. Bloomfield	WO4-2990
	WILCOX & CO. LTD., EDWARD	**Shorston Rd. Wythenshawe, Man 22, Eng**	**WY2235**
	WILL CORP.	**Box 1050 Rochester 3, NY**	**BR1-8200**
Ga	Will Corp. of Ga	Box 19664, Sta. N, Atlanta 25	TR4-3872
Md	Will Corp. of Md	Box 5195, Baltimore 24	DI2-4850
NY	Will-Buffalo, Inc.	Box 448, Buffalo 5	LI6383

TERR	MANUFACTURERS SALES/OR REPRESENTATIVES OFFICES		TEL. NO.
NY	Will-New York, Inc.	Box 23, Highbridge Sta. New York 52	CY4-3000
W Va	Will Corp. of W Va	Box 218, Spring Hill Sta. S Charleston 3	PO8-1281
	WILLAMETTE IRON & STEEL CO.	**280 NW Front Ave. Portland, Ore**	**CA2-9311**
	WILMAD GLASS CO.	**Rt. 40 & Oak Rd. Buena, NJ**	**OX2-6008**
	WILSON (ABERDEEN) LTD., ALEXANDER	**Ashgrove Rd. Eng Wks. Aberdeen, Scot**	
	WILSON & CO., G. C	**1915 8th Ave. Huntington, W Va**	**JA3-5149**
	WINCHESTER ELECTRONICS INC.	**19 Willard Rd. Norwalk, Conn**	**VI7-7231**
Ariz	Winchester Electronics Inc.	355 N Scottsdale Rd. Scottsdale	WH5-3281
Cal	Winchester Electronics Inc.	1218-5th St. Santa Monica	EX4-2755
Colo	Winchester Electronics Inc.	1013-15th St. Denver	KE4-5091
Fla	Winchester Electronics Inc.	711 Magnolia Ave. Orlando	GA4-6278
Ill	Winchester Electronics Inc.	5129 W Devon Ave. Chicago 46	RO3-3636
Md	Winchester Electronics Inc.	7016 Conley St. Baltimore	AT4-1103
Mass	Winchester Electronics Inc.	55 Prospect St. Holliston	GA9-2365
Mo	Winchester Electronics Inc.	406 W 34th St. Kansas City	JE1-5236
NY	Winchester Electronics Inc.	1 Flint St. Rochester	ED6-5999
Tex	Winchester Electronics Inc.	815 N Montclair Ave. Dallas	WH2-7211
Wash	Winchester Electronics Inc.	1321 E 66th St. Seattle 15	MA3-8820
Can	Winchester Electronics Inc.	2137 Niagara Dr. Ottawa, Ont.	CE4-4686
	WINGROVE & ROGERS LTD	**Acornfield Rd. Kirkby, Eng**	**SI2631**
Eng	Wingrove & Rogers Ltd.	Broadway Ct. London, S.W.1	AB2272
	WISCONSIN CENTRIFUGAL FOUNDRY, INC.	**905 E St. Paul Ave. Waukesha, Wis**	**LI2-5771**
Colo	D. W. Jones	1321 Bannock St. Denver	KE4-4211
Ill	D. Goebel	8138 Howard Ave. Munster Ind.	TE8-8580
Kan	D. Gamble	112 W 23rd St. Pittsburgh	AD1-9218
Mass	M. Berggren	36 Gladwin Dr. Westfield	LO6-5347
Mich	J. J. Jordon	15334 Mack Ave. Detroit 24	TU4-7810
Minn	G. R. Schwaab	111 N Greenfield Ave. Waukesha, Wis.	LI7-6070
NJ	S. Stefluk	2 Wheeler Point Rd. Newark	MA2-6330
Ohio	F. Burnett	Box 25, Cincinnati 43	LO1-9746
Ohio	J. Balog	1970 E 59th St. Cleveland	WY1-0163
Okla	P. Lindley	4108 E 36th Pl. Tulsa	RI7-5949
Tex	C. W. Lokey	4116 Daley St. Fort Worth	AT4-2633
Wash	L. O'Connor	625 W Erving Pl. Seattle 99	AT2-5351
	WISEMAN & CO. LTD., ALFRED	**89 Glover St. Birmingham 9, Eng**	**VI2216-9**
BC	Electric Power Equipment, Ltd.	1285 Homer St. Vancouver	
Can	G. W. Sadler Co. Ltd.	1845 William St. Montreal, Que	
Can	Jardine Engineering & Sales Co.Ltd.	Saint John, N. B.	
Eng	A. Wiseman & Co. Ltd.	8 Southampton Row, London, W.C.1.	
Eng	D. Haig	10 Hay Dr. Johnstone, Renfrewshire	
Eng	W. E. Morgan	99 Port Rd. E, Barry, Glamorgan	
Eng	A. G. Easton	32 Birch Tree Ave. Hazel Grove, Ches	
	WOLVERINE TUBE DIV. CALUMET & HECLA, INC.	**17260 Southfield Rd. Allen Park, Mich**	**DU6-1000**
Ala	Wolverine Tube Div.	2130 Highland Ave. Birmingham 5	FA2-0397
Cal	Wolverine Tube Div.	15445 Ventura Blvd. Sherman Oaks	ST8-7610
Cal	Wolverine Tube Div.	Ferry Bldg. San Francisco 11	SU1-7222
Ill	Wolverine Tube Div.	7040 W Cullom Ave. Norridge 34	GL7-0131
Mich	Wolverine Tube Div.	8941 Schaefer Hwy. Detroit 28	WE1-0783
Mo	Wolverine Tube Div.	225 S Meramec Ave. Clayton 5	FA6-6160
NY	Wolverine Tube Div.	11-02 35th Ave. Long Island City 6	RA1-4410
Ohio	Wolverine Tube Div.	3949 Lee Rd. Cleveland 28	SK2-4500
Pa	Wolverine Tube Div.	Liberty Trust Bldg., Broad & Arch Sts. Phila 7	LO3-1442
Tex	Wolverine Tube Div.	2604 Freewood Dr. Dallas 20	FL7-9465
	WOOD COUNTER LABORATORY N.	**1525 E 53rd St. Chicago 15, Ill**	**FA4-1114**
	WOOD RIDGE CHEMICAL CORP.	**Park Pl. E, Wood Ridge, NJ**	**WE9-4600**
NY	Wood Ridge Chemical Corp.	Park Pl. E, Wood-Ridge, NJ	CH4-7899
	WORCESTER VALVE CO., INC.	**16 Parker St. Worcester 10, Mass**	
Cal	F. Merkel	2441 Marino Dr. Newport Beach	
Colo	L. A. Christopher Co.	1751 Franklin St. Denver	
Ga	L. Crowe	111 Tuxedo Terrace NW. Atlanta	CE7-9200
Ill	A. W. McInerney	332 S Michigan Ave. Chicago	WA3-2502
Mass	W. J. Serpa	330 Stuart St. Boston 16	LI2-9815
Mo	R. C. Wohlman	4115 Manchester Ave. St. Louis	OL3-5950
NJ	Worcester Valve Co., Inc.	20 N Van Brunt, Englewood	MU2-2329
NC	Mec-Tric Controls Co.	Box 209, Charlotte	FR6-8531
Okla	R. F. Bagwell	1740 E 6th St. Tulsa	LU5-8217
Tex	Worcester Valve Co., Inc.	2480 Times Blvd. Houston	JA4-8268
Can	Marshall Petroleum Equipment & Supply Ltd.	85 St. Clair Ave. E, Toronto 6, Ont.	WA5-3292
Mex	A. B. Pina	San Borja 415, Colonia Del Valle, Mexico 5	
	WORKLON, INC.	**253 W 28th St. New York 1, NY**	**LO4-7390**
Cal	Worklon, Inc.	1007 Madison Ave. Los Angeles 29	NO3-1910
	WORTHINGTON CORP.	**401 Worthington Ave. Harrison, NJ**	
Cal	Worthington Corp.	5075 Santa Fe Ave. Los Angeles 54	LU3-6451
Cal	Worthington Corp.	224 Townsend St. San Francisco 7	GA1-4906
DC	Worthington Corp.	15th & H Sts. NW. Washington 5	ST3-8828
Ill	Worthington Corp.	400 W Madison St. Chicago 6	FR2-1628
La	Worthington Corp.	Box 561, New Orleans 7	JA2-8382
Mass	Worthington Corp.	150 Causeway St. Boston 15	CA7-3323
Mo	Worthington Corp.	3505 Lindell Blvd. St. Louis 3	JE3-2177
NY	Worthington Corp.	99 Park Ave. New York 16	OX7-2345
Ohio	Worthington Corp.	3111 Carnegie Ave. Cleveland 15	EN1-6600
Pa	Worthington Corp.	11 Union Ave. Bala Cynwyd	MO4-7600
Pa	Worthington Corp.	535 5th Ave. Pittsburgh 19	AT1-4266
Tex	Worthington Corp.	3483 W 12th St. Houston 1	UN9-3711
	WRIGHT HOIST DIV. AMER. CHAIN & CABLE CO. INC.	**735 Hay St. York, Pa**	**31521**
Cal	S. E. Havens	890 Tennessee St. San Francisco	MI7-4640
Colo	P. D. Steele	4555 E 46th Ave. Denver	FR7-8807
Ga	J. W. Allen	1055 W Marietta St. NW, Atlanta	SY4-8226
Ill	G. J. Patterson	2040 N Hawthorne Ave. Chicago	FI5-6600
NY	R. A. Willson	230 Park Ave. New York	MU6-8800
Pa	D. J. Zeigler	2250 Noblestown Rd. Pittsburgh	WA2-2100
Tex	P. W. Grim	630 McFarland St. Houston	WA3-2661
	X-RAY DEPT. GENERAL ELECTRIC CO.	**4855 Electric Ave. Milwaukee, Wis**	
Cal	GE-Industrial X-Ray Dept.	535 Montgomery St. San Francisco 6	DO2-3740
Cal	GE-Industrial X-Ray Dept.	1225 N Vermont Ave. Los Angeles 29	NO3-9367
Ill	GE-Industrial X-Ray Dept.	1061 W Jackson Blvd. Chicago 7	SE3-9700
Md	GE-Industrial X-Ray Dept.	3012 Greenmount Ave. Baltimore 18	HO7-5340
Mass	GE-Industrial X-Ray Dept.	1256 Soldier Field Rd. Boston 35	ST2-1100
Mich	GE-Industrial X-Ray Dept.	18801 W 7 Mile Rd. Detroit 19	KE7-6300
NJ	GE-Industrial X-Ray Dept.	52 Commerce St. Springfield	DR9-4865
NY	GE-Industrial X-Ray Dept.	41-15 27th St. Long Island City	EX2-5500
NY	GE-Industrial X-Ray Dept.	625 Delaware Ave. Buffalo 5	GA9210
Ohio	GE-Industrial X-Ray Dept.	3629 Carnegie Ave. Cleveland 15	UT1-9800
Pa	GE-Industrial X-Ray Dept.	231 S Euclid Ave. Pittsburgh 6	EM2-3800
Pa	GE-Industrial X-Ray Dept.	Hunting Park Ave. at Ridge, Phila 22	BA5-7600
	X-RAY MONITORING CORP.	**43 W 61 St. New York 23, NY**	**JU6-4520**
	YARDNEY ELECTRIC CORP.	**40 Leonard St. New York 13, NY**	**WO6-3100**
Cal	P. DeVere	6399 Wilshire Blvd. Los Angeles 48	OL3-9444
DC	R. McAleer	315 Premier Bldg. 1725 I St. NW, Wash	FE8-2084
Ohio	A. Clark	4269 Brumbaugh Blvd. Dayton	CR7-7712
Tex	W. Rider	10940 Pinocchio Dr. Dallas	FL7-7255
	YARNALL-WARING CO.	**102 E Mermaid Ln. Philadelphia 18, Pa**	**CH8-2600**
Cal	Yarnall-Waring Co.	2300-26th St. San Francisco 10	VA6-2165
Ga	Yarnall-Waring Co.	408-9 Bona Allen Bldg. Atlanta 3	MU8-7803
Ill	Yarnall-Waring Co.	549 W Washington St. Chicago 6	DE2-3191
Mass	Yarnall-Waring Co.	945 Great Plain Ave. Needham 92	HI4-2219
Mich	Yarnall-Waring Co.	18450 Livernois Ave. Detroit 21	UN2-5280
Mo	Yarnall-Waring Co.	109 W Jefferson St. Kirkwood 22	YO5-7625
NY	Yarnall-Waring Co.	45 W 45th St. New York 36	CO5-3302
Pa	Yarnall-Waring Co.	2961 Liberty Ave. W. Pittsburgh 16	LO1-4454
Tex	Yarnall-Waring Co.	1314 Wood St. Dallas 2	RI7-6191
	YELLOW SPRINGS INSTRUMENT CO. INC.	**Box 106, Yellow Springs, Ohio**	**HO7-7242**
	YONKERS INDUSTRIAL PLASTIC PRODUCTS CO.	**49 W 33rd St. New York 1, NY**	**LO4-9000**
	YORK CORP.	**Greatley Rd. York, Pa**	**8-1131**
	YORK RESEARCH CORP.	**1 Research Dr. Stamford, Conn**	**DA3-3179**
	YOUNG RADIATOR CO	**709 S Marquette St. Racine, Wis**	**ME2-4441**
Cal	C. H. Bull Co.	115 10th St. San Francisco	UN1-2458
Colo	F. C. Walz Co.	847 E Colfax Ave. Denver 18	AL5-9639
Ill	Young Radiator Sales	205 W Wacker Dr. Chicago 6	ST2-1889
Miss	R. G. Beck	123 Southbrook Dr. Jackson	EM5-9576
NJ	Montalvo & Co., Inc.	241 Main St. Hackensack	HU8-8030
NY	Young Radiator Sales	51 E 42nd St. New York 17	MU2-7862
NY	L. J. Cercone & Associates	Box 55, Sta. G, Buffalo 13	SU2202
Okla	Thermal Engineering Co.	1574 E 21st St. Tulsa 14	RI2-2457
Ore	H. C. McKay Co.	1901 NW 26th Ave. Portland 10	CA7-5565
Pa	Device Engineering Co.	Box 269, Media	LO6-7373
	YUBA CONSOLIDATED INDUSTRIES, INC.	**1 Bush St. San Francisco 4, Cal**	**YU1-1212**
Cal	Yuba Consolidated Industries Inc.	3605 S Broadway, Los Angeles 2	AD1-5111
Ga	Yuba Consolidated Industries Inc.	505 Peachtree St. Atlanta 6	TR3-1618
Ill	Yuba Consolidated Industries Inc.	205 W Wacker Dr. Chicago 5	RA6-6961
NY	Yuba Consolidated Industries Inc.	530 5th Ave. New York 9	OX7-9140
Pa	Yuba Consolidated Industries Inc.	1336 Phila Nat'l Bldg. Phila 9	LO3-3420
Pa	Yuba Consolidated Industries Inc.	875 Greentree Rd. Pittsburgh 7	WA2-3210
Tex	Yuba Consolidated Industries Inc.	1121 Walker St. Houston 4	CA8-3481
Wash	Yuba Consolidated Industries Inc.	White-Henry Stuart Bldg. Seattle 3	MU2-7956
	ZALLEA BROTHERS	**Taylor & Locust Sts. Wilmington, Del**	**OL4-2467**
Cal	Bogart & Bullock	6010 S Normandie Ave. Los Angeles	PL1-4173
Cal	E. C. Cooley Co.	1186 Folsom St. San Francisco	UN3-2211
Ill	Central Meters & Controls	205 W Wacker Dr. Chicago	AN3-7054
Md	G. Allen Medinger	3411 Old York Rd. Baltimore	BE6-9961
Mass	Gustavo Preston Co.	113 Broad St. Boston	HA5-3995
NY	Stanley Sales Co.	1440 Broadway, New York City	OX5-8494
Ohio	A. A. Betts	3311 Harrison Ave. Cincinnati	HU1-7577
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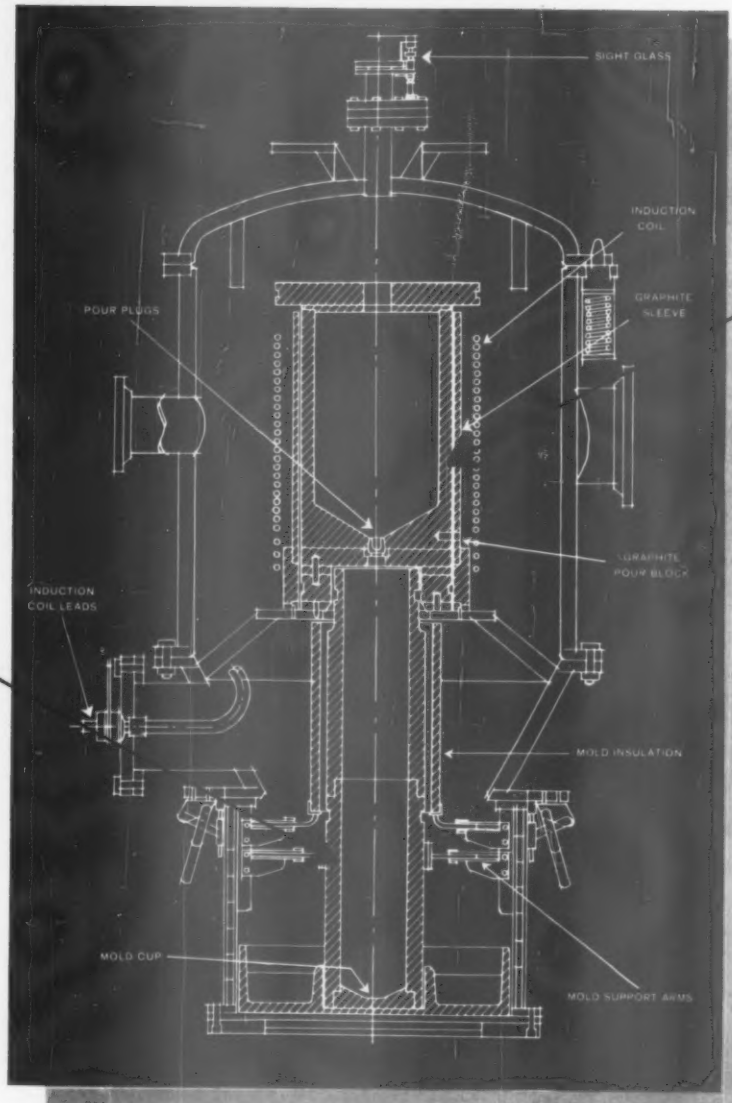

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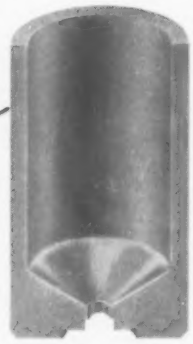

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